March 2025

The Aylesham Centre, Peckham

Energy Statement and Overheating Assessment

Document reference: AC07

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Executive Summary

This updated Energy Strategy and Overheating Assessment is prepared for Berkeley Homes (Capital) Plc and submitted in support of the planning application (ref. 24/AP/2074) which seeks permission for the comprehensive redevelopment of the Aylesham Centre and associated car park and petrol filling station at Hanover Park, London SE15 5EW ('the Site'). This updated Energy Statement and Overheating Assessment supersedes the July 2024 Energy Statement and Overheating Assessment (document ref. AC07).

The updated Energy Statement and Overheating Assessment reflects the design changes as set out within the updated Design and Access Statement (document ref AC02A).

The conclusions are unchanged from those as set out within the July 2024 Energy Statement and Overheating Assessment (document ref. AC07).

This report is intended to present the obligations with regards to Energy Modelling and compliance with the Building Regulations Part L and the sustainability targets of the project. Additionally, the Energy Modelling Inputs used to date are detailed within this report. All information herein is current at time of issuing and is subject to change pending final fabric thermal performance calculations, mechanical and electrical equipment selections, and additional design calculations.

The energy strategy for this development focuses on delivering high-quality residential and commercial spaces with minimal energy consumption and carbon emissions, aligned with the Greater London Authority's energy hierarchy: 'Lean, Clean, and Green.', striving to meet the following goals:

• **Reduce regulated CO_2 emissions** below the levels permitted by Part L 2021 of the Building Regulations through energy efficiency measures (Be Lean).
• **Achieve a 35% on-site CO_2 reduction** for non-residential developments, exceeding Part L 2021 requirements.
• **Attain zero carbon for residential developments**, achieving at least a 35% on-site reduction beyond Part L 2021 and offsetting remaining emissions to reach zero carbon status if necessary.

This report outlines the proposed strategies for both residential and non-residential areas of the development. The strategy prioritizes reducing energy demand, aiming for energy-efficient (i.e., 'lean') buildings without heavy reliance on complex systems or carbon offsetting technologies. The building design, mechanical, electrical, and plumbing (MEP) systems, and sustainability features have been optimized to reduce energy demand. The adopted servicing strategy includes maximizing the efficiency of regulated loads.

Key Features and Measures

- **Building Design and Fabric:** High insulation levels and double glazing with low-emissivity coatings reduce heating and cooling requirements.
- **Servicing Strategy:** High-efficiency mechanical ventilation with heat recovery systems (MVHR) and VRF systems for cooling, incorporating low-energy lighting fixtures and efficient controls.
- Renewable Energy**:** Installing photovoltaic panels (PV) on roofs to reduce electricity demand.
- **Heat Networks:** A study of the London Heat Networks database identified two potential heat networks near the project: Southwark-Peckham Heat Network (nearest to the project site), and SELCHP Heat Network (relatively near to the project site). The strategy includes centralized heating generation with provisions for future connection to these heat networks. The Be Clean will be considered as the local heat network for each block presented in the Be Green stage where the heating is provided via Air Source Heat Pump.
- **Sub Metering**: The sub metering will be essential for effective measurement and monitoring of the project energy performance which can be used to identify the potentials of carbon reduction opportunities related to incorporating rising technologies.

The development has been modelled using approved software packages Elmhurst Design SAP and IES VE. SAP calculations have been performed for all residential units; two scenarios were considered for the Be Lean stage: one with a low carbon system and one without a low carbon system. SBEM calculations have been conducted for communal and amenities areas and Morrisons. The Notional building of the Be Lean stage is the baseline against which the carbon reduction will be measured. Final BRUKL and SAP calculations should account for the final selected equipment and building construction details. The methodology employed and the outcomes of the assessment are outlined in this document.

Energy Assessment Conclusions

- The energy demand assessment for the residential areas indicates that the carbon-saving measures in the energy strategy achieve an on-site reduction of 64.28% for the Be Green scenario. Additionally, the energy demand assessment for the non-residential areas shows that the carbon-saving measures outlined in the energy strategy provide an overall on-site reduction of 36.7 % for commercial areas, with a 37.3% reduction for communal corridors compared to Building Regulations Part L. This achieves a cumulative on-site Non-residential reduction of 36.8% and exceeds the minimum 35% target for the Be Green scenario.

Overheating Assessment

A comprehensive analysis was conducted to evaluate and implement optimal measures for preventing overheating throughout the project's lifetime. This analysis followed the guidelines of Building Regulations Part O and CIBSE TM59. Building Regulations Part O provides methodologies to minimise overheating risks in new dwellings, including compliance through dynamic thermal modelling as specified in CIBSE TM59.

- The dynamic simulation indicates that in units with unrestricted or minimally restricted window openings, natural ventilation will mitigate overheating for most of the year. However, in scenarios with low wind speeds or wind directions that do not facilitate adequate airflow through the windows due to their location, MVHR will provide the necessary additional mitigation. This ensures that the units remain cool in most wind flow scenarios and are adaptable to heatwaves and climate change.
- For units with restricted window openings due to acoustic concerns, natural ventilation is not an effective method for mitigating heat. According to the analysis, a mechanical system utilising MVHR will be required to reduce the risk of overheating.

- **Current Weather file**
  - **Mixed Mode Ventilation (Mechanical + Natural)**

    The results show MVHR 1.5 ACH (Overheating Mode) + 0.46 m^2 openable window for all floors where windows are allowed to open, will comply with TM59 Criteria. The below table shows the average frequency of opening the windows per façade.

Table 1 Average number of hours when windows required to open for overheating mitigation.

Orientation	Average number of hours when windows required to open for overheating mitigation
North	70 hrs*
East	110 hrs
West	110 hrs
South	210 hrs

*No Hours at night-time for Bedrooms needed for overheating mitigation.

For spaces where windows cannot be opened due to acoustic considerations, the overheating results demonstrate that all spaces for all buildings will meet the necessary overheating assessment requirements by installing MVHR systems with a 2.5 ACH (overheating mode).

The overheating analysis shows that the current strategy results in compliance for DSY1 for apartments spaces.

- **DSY2, DSY3 and Future Weather File Scenario**

The results demonstrate that the current strategy meets the compliance for majority of the apartments and has only slight limited exceedance for some apartments for DSY2 and 3 files. Although it is not mandatory to comply with future weather files such as DSY2050, it is recommended to consider them for future-proofing the development. While some apartments show marginal exceedance of TM59 thermal comfort criteria under future weather conditions, the overall strategy remains effective.

- **Communal Corridors**

The inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. The overheating test for corridors should be based on the number of annual hours for which an operative temperature of 28 °C is exceeded. If an operative temperature of 28 °C is exceeded for more than 3% of the total annual hours, then this should be identified as a significant risk within the report.

Based on the current stage level of details the corridors have low risk of overheating. The design therefore complies with the requirements of TM59 criteria. This is to be further verified as more details regarding heating pipes routing and insulation become available.

1 Introduction

1.1 Scope

ME Engineers Ltd has been appointed by Berkeley Homes (Capital) Plc (the 'Applicant') to prepare an Energy Statement and Overheating Assessment to accompany an application for full planning permission being submitted by the Applicant to the London Borough of Southwark (LBS) for the proposed development at Aylesham Centre Peckham, located in Hanover Park, London SE15 5EW.

The Proposed Development is for the demolition of existing buildings and phased redevelopment to provide a replacement supermarket and associated service yard and car parking (Use Class E(a)); flexible retail, leisure (including drinking establishment), and commercial accommodation (Use Class E/Sui Generis); dwellings (Use Class C3); landscaping; and associated works.

1.2 Purpose of Report

This updated Energy Strategy and Overheating Assessment is prepared for Berkeley Homes (Capital) Plc and submitted in support of the planning application (ref. 24/AP/2074) which seeks permission for the comprehensive redevelopment of the Aylesham Centre and associated car park and petrol filling station at Hanover Park, London SE15 5EW ('the Site'). This updated Energy Statement and Overheating Assessment supersedes the July 2024 Energy Statement and Overheating Assessment (document ref. AC07).

The updated Energy Statement and Overheating Assessment reflects the design changes as set out within the updated Design and Access Statement (document ref AC02A).

The conclusions are unchanged from those as set out within the July 2024 Energy Statement and Overheating Assessment (document ref. AC07).

The project particularly focuses on carbon emissions reduction in line with the current London Plan guidance and Energy Assessment Guidance with the "Lean-Clean-Green" approach. The environmental strategy approach targets to first minimize the energy demand and subsequently apply energy efficient systems. The energy demand has been minimized by implementing passive envelope design strategies, ensuring that whole-house ventilation with minimum fresh air and high heat recovery efficiency can meet most of the buildings' energy needs and reduce dependency on active cooling for summer comfort.

As a third step, ME Engineers recommends to first consider renewables (due to their effectiveness in reducing emissions) prior to relying on other alternatives. The environmental approach adopted is therefore in line with the London Plan Energy Hierarchy: reduce demand, supply energy efficiently and use renewables.

Subsequently, the energy strategy considers connection to the existing heat network to meet the space heating and domestic hot water demand of the development. The Be Clean will be considered as the local heat network within the site for each block presented in the Be Green stage where the heating is provided via Air Source Heat Pump. Photovoltaics were determined to be the most suitable renewable technology for the project.

SAP calculations have been performed for all residential units, while SBEM calculations have been conducted for communal and amenities areas and Morrisons. Final BRUKL and SAP calculations should account for the final selected equipment and building construction details. A comprehensive overheating analysis to evaluate the optimum measures to overcome the potential of overheating throughout the lifetime of the project. The methodology employed and the outcomes of the assessment are outlined in this document.

1.3 The Site and Location

The Site is located within Peckham town centre within the administrative boundary of the London Borough of Southwark ('LBS') (the Local Planning Authority ('LPA')) Rye Lane bounds the Site to the west, Hanover Park to the south and Mckerrell Road to the east as shown in Figure 1.

The site area is 2.7 ha, and it accommodates the Aylesham Centre alongside an associated surface car park, service yard, and petrol filling station. The Aylesham Centre comprises retail units fronting on to Rye Lane with additional retail units within a covered mall, including a Morrison supermarket. The proposed development, Aylesham Centre, comprises residential and non-residential units distributed across 16 buildings, as shown in Figure 2.



Figure 1 The Site



Figure 2 GA Plan shows the proposed development site

1.4 Software and Modelling Information

The development has been modelled using an approved software package as follows:

- **For residential spaces,** the Standard Assessment Procedure (SAP) for energy ratings was used, specifically Elmhurst Design SAP 10.2, including the assessment of Code for Sustainable Homes (CfSH) energy credits.
- **For non-residential spaces,** the National Calculation Methodology (NCM) was applied through the Simplified Building Energy Model (SBEM) using IES VE 2023 (Integrated Environmental Solutions Virtual Environment).

A full IES model has been constructed for the project, following the CIBSE AM11 guidelines. The model reflects the latest received architectural drawings from dRMM Architects. The thermal templates reflect the design criteria for each space that follows CIBSE Guide A- 2019 and CIBSE AM11 guidelines.

To demonstrating Building Regulations Part L (BRUKL) compliance, each building has been modelled as one development with different uses. NCM room activities were selected in each case as appropriate to the room function. The following images show the IES model used for the calculations and thermal template model.

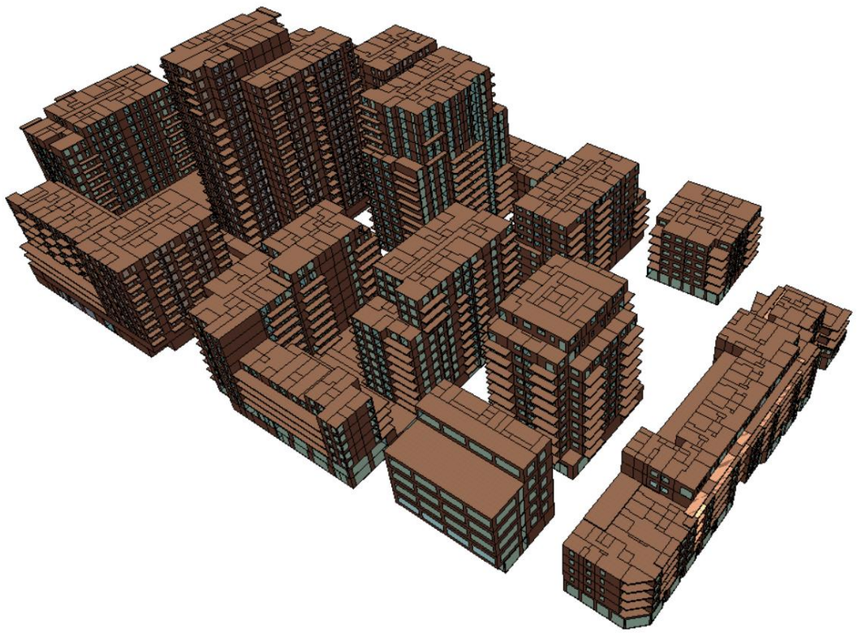


Figure 3 Aylesham Centre IES Model

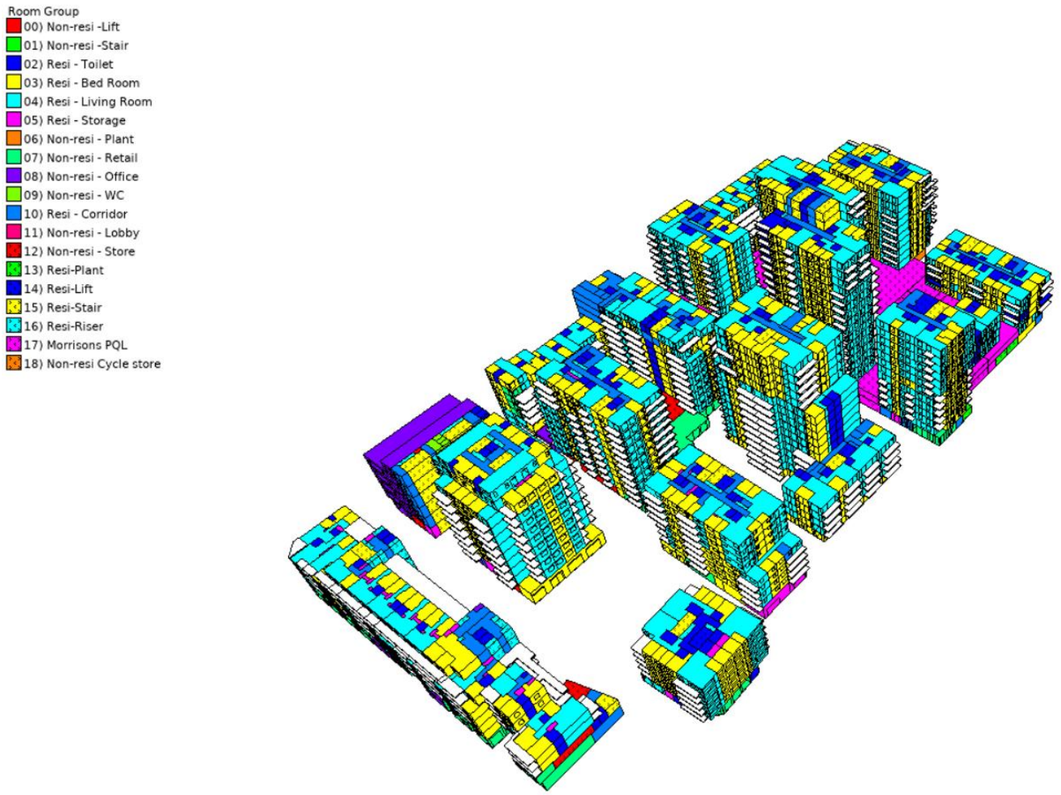


Figure 4 Aylesham Centre IES Model Thermal Template

2 Sustainability Drivers

Sustainability in urban development aims to mitigate environmental impact, enhance energy efficiency, and promote ecological balance. Regulatory initiatives focus on reducing carbon emissions, increasing the use of renewable energy, and improving building design and operation to achieve economic and social benefits, such as reduced operational costs and improved quality of life. The proposed development has considered the following adopted and emerging sustainability policies and documents. This ensures compliance with relevant requirements and identifies viable environmental design opportunities.

2.1 National Planning Policy Framework (2023)

The National Planning Policy Framework (NPPF) is a land-use planning policy in England. The NPPF sets out the government's planning policies for England. It covers a wide range of topics, including sustainable development, plan-making, decision-making, housing, economy, transport, environment, and heritage. The latest version of the NPPF was published in December 2023. It serves as a framework for producing Local Plans for housing and other development, which in turn inform decisions on planning permission applications.

2.2 London Plan Policies

The current London Plan March 2021 (LP2021) is adopted and is a material consideration in planning decisions. The following policies govern the sustainable delivery of the proposed development, which should be addressed by the proposed development.

- Policy SI 1: Improving Air Quality
- Policy SI 2: Minimising Greenhouse Gas Emissions
- Policy SI 3: Energy Infrastructure
- Policy SI 4: Managing Heat Risk
- Policy SI 5: Water Infrastructure
- Policy SI 7 Reducing waste and supporting the circular economy
- Policy SI 12: Flood Risk Management
- Policy SI 13: Sustainable Drainage
- T 5 Cycling
- T6 Car Parking

2.3 London Borough of Southwark Local Plan 2022

The current London Borough of Southwark Local Plan 2022 (LBS 2022) serves as a material consideration in planning decisions. The following policies govern the sustainable delivery of the proposed development and should be addressed accordingly.

- P16 Designing out Crime
- P56 Protection of amenity
- P59 Green Infrastructure
- P60 Biodiversity
- P61 Trees
- P62 Reducing waste
- P64 Contaminated land and hazardous substances
- P65 Improving air quality
- P66 Reducing noise pollution and enhancing soundscapes
- P67 Reducing water use
- P68 Reducing flood risk
- P69 Sustainability standards
- P70 Energy

2.3.1 London Plan Policy SI 2 Minimising Greenhouse Gas Emissions

The primary drivers for the project's energy strategy are complying with local guidelines, including the GLA Energy Plan 2022, and the national requirement of Part L compliance. In line with the London Plan, major developments are expected to be net zero carbon by incorporating measures outlined in the London Energy Hierarchy.

- Be Lean: use less energy and manage demand during operation through fabric and servicing improvements and the incorporation of flexibility measures.
- Be Clean: exploit local energy resources (such as secondary heat) and supply energy efficiently and cleanly by connecting to district heating networks.
- Be Green: maximise opportunities for renewable energy by producing, storing, and using renewable energy on-site.
- Be seen monitor: verify and report on energy performance through the mayor's post construction monitoring platform.

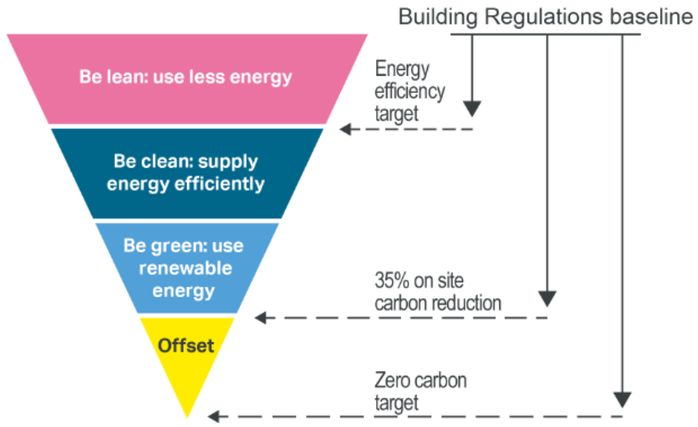


Figure 5 Energy Hierarchy

Major developments must reduce on-site emissions by at least 35% beyond Building Regulations. Residential projects should achieve 10% and non-residential projects 15% through energy efficiency measures. If the zero-carbon target cannot be fully met on-site, the shortfall should be addressed by either:

- A cash in lieu contribution to the borough's carbon offset fund, or
- An off-site solution, provided it is clearly identified and guaranteed to be delivered.

2.4 Building Regulations Part L

To meet the newly introduced Part L 2022 compliance for dwellings, the following three criteria must be met for the entire development:

1. The Dwelling Emissions Rate (DER) must not exceed the Target Emissions Rate (TER).
2. The Dwelling Fabric Energy Efficiency (DFEE) Rate must not exceed the Target Fabric Energy Efficiency (TFEE) Rate.
3. The Dwelling Primary Energy Rate (DPER) must not exceed the Target Primary Energy Rate (TPER).

One of the key changes from previous legislation is the introduction of the TPER, which directly limits the energy consumption of a dwelling, along with efficiency improvements to the target dwelling.

3 Be Lean

This section shows how CO2 emissions are reduced through energy demand reduction measures. The design for Aylesham Centre focused on reducing energy demand first, prioritizing the optimization of the building's fabric performance to minimize the need for heating, cooling, and lighting. The goal was to maximize efficiency ('lean') and avoid depending on complex mechanical systems to achieve low carbon performance, The energy efficiency measures undertaken include passive and active design measures.

The scenarios considered are:

For residential buildings:

- Be Lean – Gas Boiler

For non-residential areas:

- Be Lean - with a low carbon system

Part L1

The Part L1 2021 baseline will ordinarily include a gas boiler as the heating source for the notional building (see SAP 10.2, Appendix A). If low carbon or renewable heating systems are proposed applicants should match the notional building assumptions when reporting CO2 emission performance under the 'Be Lean' stage of the energy hierarchy. For example, if the final proposed building specification includes heat pumps, then the 'Be lean' DER should include the gas boiler in line with the notional performance values. Please note that for Part L1 the notional building is not always a gas boiler e.g. for developments connecting to an existing heat network. In this case the 'Be Lean' performance for the heating system should assume the same system and performance values as the existing heat network that will be included in the Part L 2021 baseline.

Additional exercise has been conducted to quantify the extra energy savings from the proposed HVAC system design, efficiency, and other on-site renewable sources compared to the baseline system efficiencies per SAP 10.2 Part L. This is to quantify the additional Be Green savings compared to a low carbon baseline using the Part L 2 methodology. The emphasis is on the development and innovation aimed at further reducing operational energy consumption and carbon emissions, which are currently not adequately represented by the Part L 1 non-low carbon baseline.

Part L2

The Part L2 2021 baseline will change depending on the actual heating system proposed. Tables 7 - 10 of the NCM Modelling Guide (2021 Edition) explains the systems and performance values that will be used in the Part L 2021 baseline. For example, under Part L 2021 for a non-residential building proposing heat pumps, the TER for the Part L 2021 baseline would include heat pumps with notional performance values of 2.86 seasonal generator efficiency for hot water and 2.64 seasonal system coefficient of performance for space heating. Where heat pumps are proposed, applicants are required to match the notional building heating type and performance values for heat pumps in the 'Be Lean' case.

Heating and hot water assumptions

It is expected that, through following the heat hierarchy, the final proposed heating strategy will include low carbon and/or renewable technologies. The CO2 emission improvements from these technologies are to be accounted for in the 'be clean' and 'be green' stages of the energy hierarchy. For the purposes of demonstrating CO2 emission improvements in the 'be lean' stage of the energy hierarchy, applicants should use the notional building system type and performance values specified in the Part L 2021 baseline as determined by the final proposed building specifications. In this way CO2 emission improvements from the proposed space heating and hot water demand reduction measures can be compared against the Part L 2021 baseline, for example through improvements in performance of building fabric, heat recovery or water efficient fittings.

3.1 Passive Design Measures

The following 'passive' design measures implemented in the project to reduce energy requirements:

- Enhanced the building fabric's thermal performance beyond the standard Part L notional values.
- Double-glazed windows.
- Low-emissivity coated glass with a low G value to reduce undesirable solar heat gain.
- Enhanced air permeability.
- Maximized potential for passive ventilation in residential areas.

3.1.1 Building Fabric

The table below summarises the proposed and target fabric performance for the residential and non-residential areas of the development used in the assessment. For each element, a note has been added to show how each element has been modelled and whether it has been adopted in the design as proposed.

Table 2 Proposed Design performance for the development

Element or System	U Value	Notes
External walls including semi exposed walls	0.15 W/m²K	All Envelope parameters have been modelled as proposed
Partition walls between Lift Shafts (Untreated) and Dwellings	0.2-0.25 W/m²K	
Partition walls between services risers (Untreated) and Dwellings	0.2-0.23 W/m²K	
Party walls	0	
Ground Floors	0.11 W/m²K	
Intermediate floor	1 W/m²K	
Roofs	0.11 W/m²K	
Windows and glazed doors with >60% glazed area	Windows U Value = 1.3 W/m²K Frame factor = 0.7 Light transmittance = 0.70 G-Value <=0.4 Glazed Doors U Value =1.3 W/m²K Frame factor = 0.7 Light transmittance = 0.70	
Thermal mass	As Designed	
Allowance for thermal bridging	0.11 Default value at current stage with thermal bridging calculation to be considered at later stages.	Thermal Bridging calculations via approved scheme or using Approved Construction details are essential to boost energy savings and avoid the unnecessary heat losses that might not actually be occurring.
Air permeability	3 m³/h·m² at 50 Pa	Note that as part of the future building consultation, it will be required that all dwellings need to have an air permeability test. Provisions of such requirement shall be considered in the cost plan. Moreover, such requirement will ensure that each dwelling will have its actual air permeability performance without applying any penalty values because of not being tested.

Table 3 Criterion 3 - Limiting Solar Gain

Building	Internal Blinds
ABC	NO
D	YES
E	YES
F	NO
G	YES
H	NO
J1J2	NO
K	YES
L	NO
M	NO
N	NO
P	NO
Q	NO
Morrisons	NO

**The internal blinds have only been included in offices.*

3.2 Active Design Measures

Following from passive measures that balance fabric losses and gains, active energy efficiency measures have been proposed to further enhance energy efficiency and reduce energy consumption. These measures are divided into regulated and unregulated loads. Regulated loads involve critical systems like space heating, cooling, hot water, internal lighting, etc., which we aim to optimize for efficiency. Unregulated loads, like plug-in devices and equipment used by building occupants, require collaboration with end users to refine assumptions and select energy-efficient equipment for minimal energy use.

The Notional building at the Be Lean stage serves as the baseline against which carbon reduction will be measured.

To maximize the efficiency of regulated loads in the Be Lean stage, the following approach is proposed:

- For residential units, a gas boiler with an 89.5% efficiency.
- For non-residential units, an ASHP with a Seasonal Coefficient of Performance (SCOP) of 3 has been used in the low carbon system Be Lean scenario, providing efficient, low-carbon heating by transferring heat from outside air to inside spaces. Using a high-efficiency ASHP system with performance higher than the Be Lean scenario will be reported as part of the Be Green level.
- High efficiency mechanical ventilation with heat recovery (MVHR) systems, have been applied to the systems where appropriate.
- Cooling is provided via VRF system with heat recovery to various terminal system types for retails and offices spaces due to its energy efficiency, individual zoning, eco-friendliness, low noise levels.
- Direct Electric Heaters for corridors.
- Efficient fans and pumps with variable speed control, along with inverter-driven pumps combined with differential pressure sensors to optimize system efficiency.
- Heat Interface Unit (HIU).
- Artificial lighting incorporates low-energy light fixtures and efficient lighting controls, such as presence/absence detection and daylight-linked dimming, when suitable.

Tables 4 and 5 detail the building system properties for the residential and non-residential units.

Table 4 Building System Properties – Residential Units

Be Lean	Energy	Source	Contribution (%)	Efficiency (%)
Non-Low Carbon Baseline	Heating	Boiler	100	89.5

Table 5 Building System Properties – Non-Residential Units

System Type	Specification	Notes
MVHR	SFP = 1.5 W/(l/s) Heat Recovery Efficiency = 80% Variable speed controller	-
VRF	SCOP = 2.64 SEER = 6	-
DHW - ASHP	SCOP = 2.86	-
Low energy light	Luminaire Efficacy = 120 lm/W Display Light Source Efficacy = 85 lm/W	-

3.3 Be Lean Energy Assessment Results

3.3.1 Residential

Detailed SAP calculations have been conducted for all-residential units in each tower based on Be Lean parameters with the below results:

3.3.1.1 Be Lean Results

Table 6 Residential Be Lean SAP calculations levels

Building	Area (m^2)	DER ($kgCO_2/yr/m^2$)	TER ($kgCO_2/yr/m^2$)	Savings (%)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	Savings (%)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	Savings (%)
ABC	4581	11.39	13.46	15.36%	30.66	30.81	0.49%	67.65	72.42	6.58%
E	4636.04	11.68	13.67	14.56%	27.5	28.63	3.93%	70.24	74.31	5.47%
F	1711	9.97	11.99	16.88%	28.28	28.94	2.26%	59.6	64.02	6.91%
G	4812.91	10.67	13.16	18.97%	27.53	28.72	4.15%	64.07	71.64	8.74%
H	3400	9.93	12.19	18.60%	26.44	26.64	0.75%	59.72	65.92	9.41%
J1J2	8849.67	10.29	12.64	17.09%	23.74	24.64	3.65%	62.33	69.08	9.77%
K	5891	10.14	12.39	18.15%	24.25	25.07	3.28%	61.37	67.28	8.78%
L	5623.47	10.23	12.38	17.33%	22.96	24.43	6.02%	61.92	66.93	7.49%
M	10792	9.92	12.88	23.01%	24.11	26.35	8.53%	60.02	70.75	15.16%
N	3603.86	11.7	13.77	15.07%	24.39	24.99	2.40%	70.67	75.33	6.19%
P	4424.47	9.23	11.60	20.44%	25.58	25.48	-0.41%	55.66	63.03	11.70%
Q	1844.96	10.39	12.22	14.96%	27.06	26.83	0.85%	62.49	65.46	4.53%
Total	60121.7	10.46	12.70	16.98%	26.04	26.79	3.60%	62.98	68.85	8.26%

3.3.2 Non-Residential

The non-residential energy assessment has considered the commercial areas, Morrisons, and any associated areas as separate spaces, while spaces like stores are unheated and therefore excluded in Part L. The tables below summarise the BRUKL output for non-domestic areas based on Be Lean parameters.

Table 7 BRUKLs Summary for Commercial areas - Be Lean

Building	Area [m²]	Heating + Cooling Demand [MJ/m²/annum]		Primary Energy [kWh/m²/annum]		Total Emissions [KgCO2/m²/annum]		
ABC	1245.20	152.84	159.44	47.67	58.97	4.4	5.42	18.82%
D	2725.30	96.57	108.65	30.53	37.44	2.82	3.42	17.54%
E	341.00	329.65	282.65	98.31	122.78	9.11	11.28	19.24%
F	208.20	190.28	208.32	89.58	114.33	8.24	10.46	21.22%
G	276.20	271.93	252.39	92.92	114.48	8.49	10.48	18.99%
H	244.20	302.5	296.91	116.67	142.49	10.76	13.06	17.61%
J1J2	125.30	308.94	207.46	53.82	63.9	4.94	5.89	16.13%
K	1259.40	116.09	127.19	42.81	52.22	3.95	4.78	17.36%
L	16.50	310.51	228.22	59.21	71.35	5.46	6.61	17.40%
N	97.40	226.11	166.76	48.14	60.7	4.36	5.55	21.44%
Morrisons	2252.92	141.8	111.32	45.94	54.23	4.18	4.94	15.38%
Site Wide	8791.62	146.3	140.3	47.6	58.1	4.4	5.3	17.62%

Table 8: BRUKLs Summary for Communal Corridors - Be Lean

Building	Area [m²]	Heating + Cooling Demand [MJ/m²/annum]		Primary Energy [kWh/m²/annum]		Total Emissions [KgCO2/m²/annum]				
		Actual	Notional	Actual	Notional	Actual	PV	(PV Renewable)	Notional	Savings
ABC	371	16.43	26.82	14.69	12.39	1.41	0.61	0.80	1.24	23.58%
D	153	39.11	62.92	28.09	25.29	2.72	0.85	1.87	2.53	19.46%
E	593.1	0.93	1.36	9.9	8.63	0.91	0.42	0.49	0.81	26.23%
F	244.6	6.82	7.46	10.62	5.92	1	0.71	0.29	0.6	23.40%
G	858	9.95	17.91	11.53	12.54	1.1	0.35	0.75	1.22	30.06%
H	582.2	4.85	13.18	10.45	11.16	0.98	0.47	0.51	1.08	36.82%
J1J2	1196.3	2.59	3.53	10.54	10.11	0.98	0.25	0.73	0.95	18.32%
K	1120.8	4.97	12.5	9.59	10.35	0.9	0.42	0.48	1	36.78%
L	874.1	2.21	11.8	9.04	9.54	0.84	0.38	0.46	0.93	36.12%
M	2207.5	0.16	0.59	8.53	8.78	0.78	0.20	0.58	0.82	23.69%
N	797.5	20.31	35.72	17.12	17.85	1.66	0.33	1.33	1.75	20.03%
P	891.2	5.99	13.43	11.37	11.01	1.07	0.35	0.72	1.06	24.26%
Q	453.3	13.1	23.8	14.13	10.35	1.35	0.71	0.64	1.05	23.10%
Site Wide	10342.6	6.20	12.22	11.07	10.87	1.04	0.37	0.67	1.05	26.53%

4 Be Clean

In this step, the project investigates the potential of connection to local energy resources (such as heat networks) and supply energy efficiently and cleanly to reduce CO_2. There is no currently existing heat network directly within the vicinity of the Proposed Development that can be feasibly used to supply heating and cooling energy.

The site for the proposed development is defined within a current Heat Network priority area as shown below:

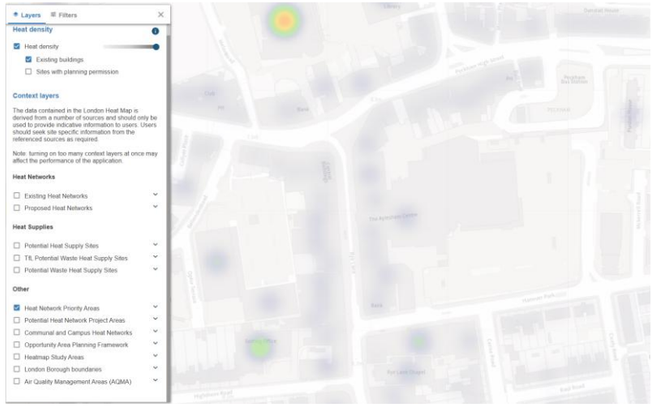


Figure 6: London Heat Map - Heat Network Priority Areas

Current Heat Network Priority areas are defined in the London Heat Map maps as areas in London where a heat network provides a financially competitive solution for supplying heat to buildings and consumers. This was last updated 23/04/2023.

Potential Heat Priority area is defined by the Centre For Sustainable Energy's (CSE's) cost optimisation and heat network model that indicate areas where heat networks may be a highly viable approach for the decarbonisation of heat in the area and it would be worth investigating these heat network project areas further. London Hea network maps shows Only limited parts of the Norh East side of the plot is within the potential priority heat network area



Figure 7: Potential Heat Network Priority Area

As indicated by the London Heat Map networks database, the proposed (potential) main heat network near the project site is the Southeast London Combined Heat and Power (SELCHP) facility. Based on the available data from the SELCHP heat network provider and the London Heat Map data, there is currently no direct connection of this heat network to the proposed development site.

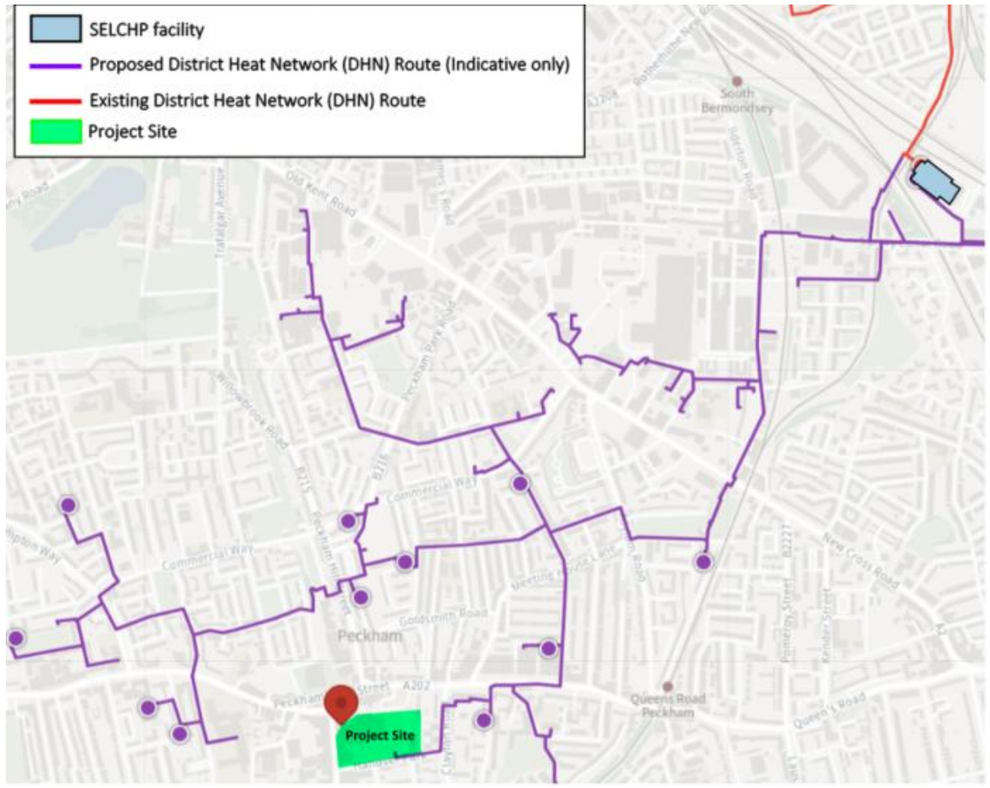


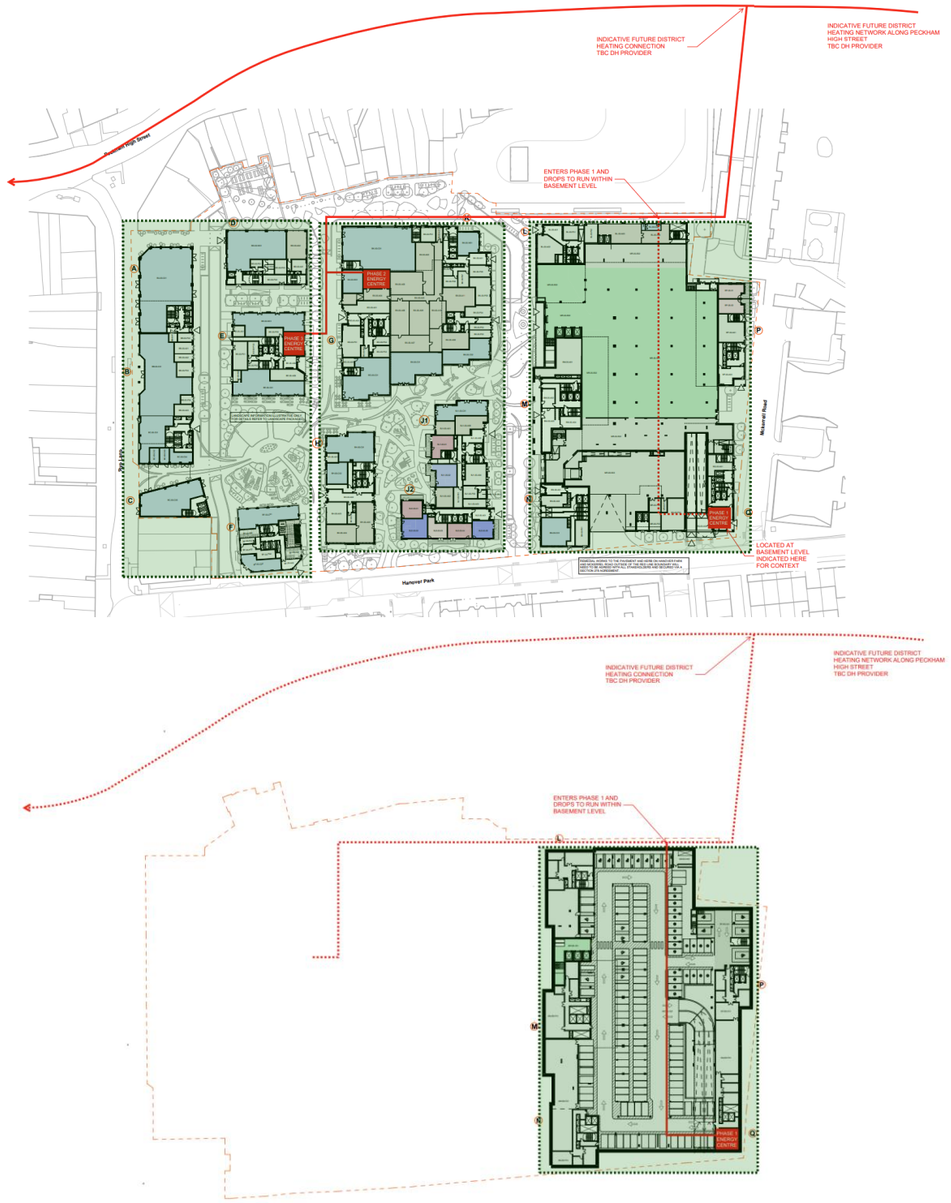
Figure 8 SELCHP Proposed Extension of the SELCHP Heat network

The London Heat Maps shows that the SELCHP is proposed to be extended to the site as part of future works. This is confirmed by the heat network operator, however, there is currently no data on the start and expected completion date for the proposed heat network extension at the time of enquiry and the proposed routes indicated in the proposed Local Development Area (LDO) area are still evolving and are subject to change.

For this energy strategy the Be Clean approach is considered as the local heat network within the site for each block where the heating is provided via Air Source Heat Pump. The proposed energy infrastructure for the site ensures appropriate systems are in place to facilitate the potential connection to district heating networks should this become a viable option for the site in the future.

Communication with Veolia, the service provider, has been initiated from the early stages of the project to establish the potential timeline for the availability of the heat network near the site for connection (details of this communication are included in Appendix I). Based on these discussions, the provision for a future connection to the SELCHP heat network has been incorporated into the energy centre planning for each phase.

The following figures present the location where future connection to SELCHP heat network can be integrated in the site heating system (See also Appendix K).



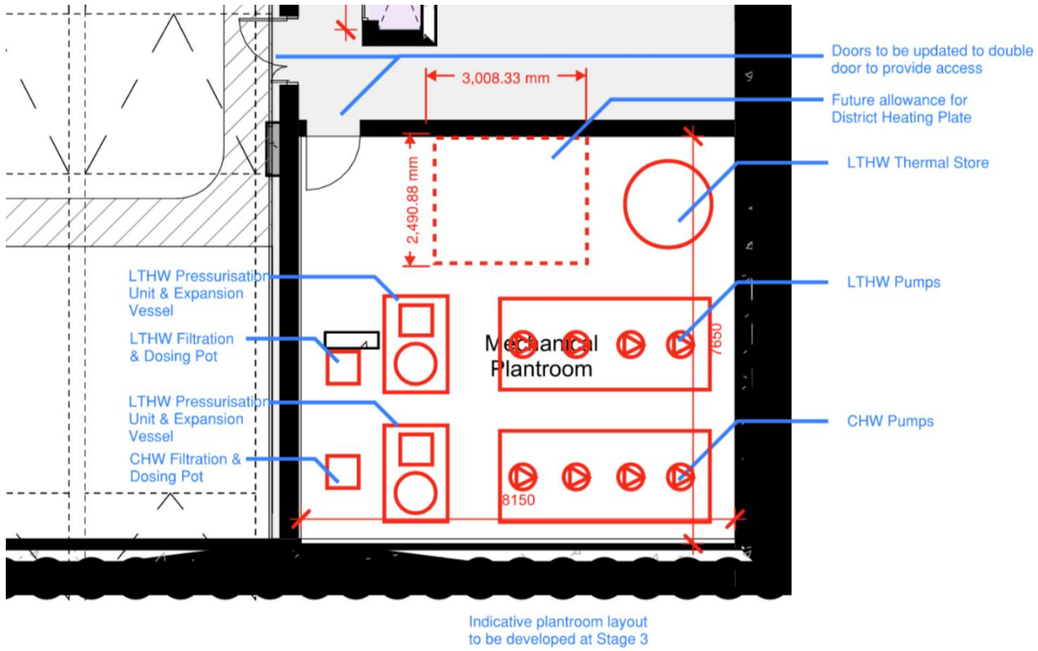


Figure 9: Location of Potential Connection of Project Site to District Heating Network based on proposed LDO route (Indicative Only) & Proposed Layout of Energy Centre

4.1 Be Clean Energy Assessment Results

As requested by the GLA, the carbon emissions from the portions of the plot that will benefit from a future connection to the SELCHP heat network have been estimated. These portions are the Residential .

SELCHP is an energy-from-waste incineration plant located in Bermondsey, London. The facility is designed to generate both heat and electricity by incinerating municipal solid waste. SELCHP is a partnership between the public and private sectors, involving local authorities and specialist companies. The plant plays a crucial role in waste management for several London boroughs, providing a sustainable solution by converting waste into energy.

The calculation have been based on the data received from SELCHP service Provider as shown below:

Table 03 - DHN Bespoke modelling

Ref	Description	Current System		Future Potential System		Units	Method
		SAP 2012	SAP 10.1	SAP 2012	SAP 10.1		
Ref	**Heat Delivered**						
(1)	Heat Delivered to HIU (within the dwelling)	1000	1000	1000	1000	kWh	HIU
	Losses						
(2)	SAP Distribution Loss factor (As per CP1)	1.05	1.30	1.05	1.30	-	SAP
	Heat Generated						
(3)	Heat Generated at SELCHP (96.5% fraction)	1013.25	1300.00	1050.00	1300.00	kWh	(1) x (2) x 96.5%
(4)	Heat produced by backup boilers (fraction 3.5%@85%eff.)	43.24	53.53	43.24	53.53	kWh	(1)x(3.5%)/(85%) x(2)
(5)	Total heat generated	1056.49	1353.53	1093.24	1353.53	kWh	(3) + (4)
	SELCHP Ratio						
(6)	Z Factor	10.00	10.00	5.80	5.80	-	Operations
	Efficiencies						
(7)	Overall power efficiency (Heat & Electricity)	0.25	0.25	0.39	0.39	%	Operations
	Electricity Losses						
(8)	Total waste heat recovered at SELCHP eligible for carbon intensity	101.33	130.00	181.03	224.14	kWh	(3) / (6)
(9)	Electricity loss for pumping (parasitic load)	10.56	13.54	10.93	13.54	kWh	(5) x 1%
	Emission Factors						
(10)	heat from boilers - mains gas	0.216	0.210	0.216	0.210	kgCO2/kWh	SAP
(11)	electricity displaced from grid	0.519	0.136	0.519	0.136	kgCO2/kWh	SAP
	Overall carbon intensity factor for SELCHP DHN						
(12)	Backup boilers	9.34	11.24	9.34	11.24	kgCO2	(10) x (4)
(13)	SELCHP eligible heat	58.07	19.52	99.63	32.32	kgCO2	(11) x (8+9)
(14)	Total emissions per annum	67.41	30.76	108.97	43.56	kgCO2	(12) + (13)
(15)	Carbon Intensity Factor per kWh delivered	0.067	0.031	0.109	0.044	kgCO2/kWh	(14) / (1)

Figure 10: SELCHP Data extract

The current carbon factor of SELCHP is 0.031 KgCO2/kWh(Heat). The current carbon factor for the heat network with Aylsham site is circa 0.0136/SCOP = 0.136/2.5 = 0.0544 KgCO2/kWh(Heat). the below figure shows that connecting to potential SELCHP heat network will result in 8% reduction compared to the current carbon factors.

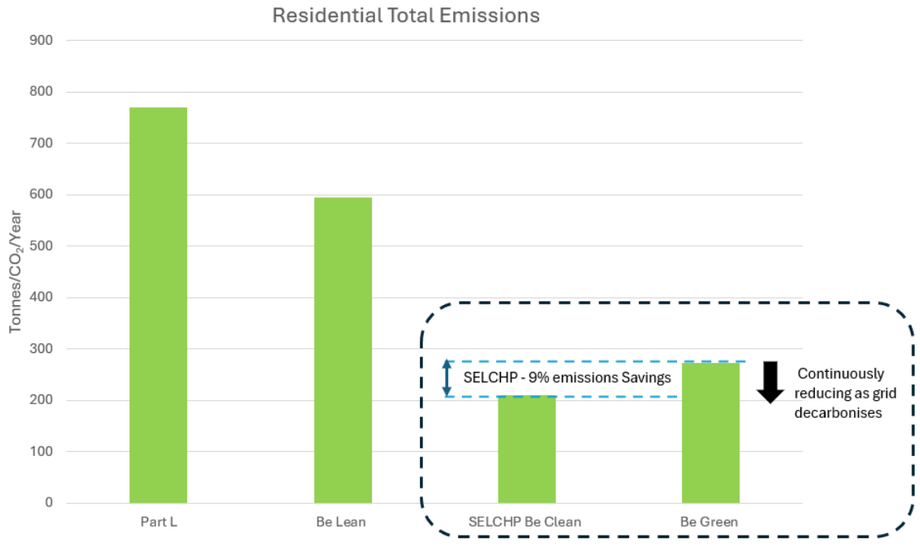


Figure 11: Be Clean Scenario reduction savings

However, The Heat Network within the site which is totally electrified will continuously decarbonise. The below figure shows the expected decarbonisation rate. It is predicted that by date of starting project the carbon factor will be 0.0408 kgCP2/kWh(thermal). By 2032 the carbon factor of the local heat network will equalize of SELCHP and continuous to decrease until reaching net zero as the grid completely decarbonise.

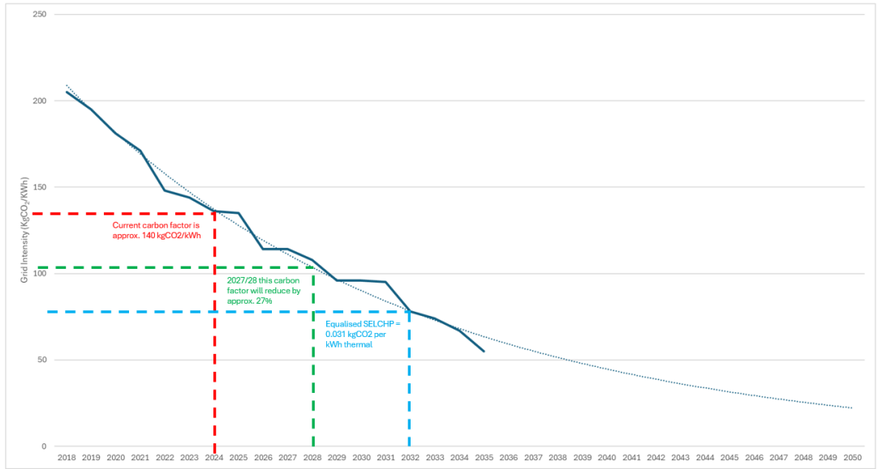


Figure 12: BEIS Grid Carbon intensity factor

5 Be Green

5.1 Residential

The residential apartments are supplied with hot water from **three energy centres for each phase**, where heat pumps are used for water heating. Based on manufacturer specifications, the heat pumps, operating at the required capacities for this project, will achieve a **Seasonal Coefficient of Performance (SCOP) of 2.5**, as summarized in the table below:

Table 9 Building System Properties - Residential

Energy	Source	Contribution (%)	Efficiency (%)
Heating	Heat Pumps	100	250

Communal Corridors will be heated via direct electric heaters

5.2 Non-Domestic

In line with Policy 5.7 of the London Plan on renewable energy technologies, the final stage of the Energy Hierarchy emphasizes the use of low and zero carbon energy technologies. Low and Zero Carbon (LZC) Feasibility studies offer an in-depth examination of appropriate renewable energy technologies for prospective projects. As attention to operational expenses and related CO_2 emissions continues to increase, integrating LZC technologies is crucial in any design plan. From a technical standpoint, two main LZC technologies are feasible to be applied for the project:

1. Use of high-performance heat pumps for non-domestic areas: Decentralized Heat pumps are a highly efficient method for producing hot water and heating, significantly contributing to the carbon savings for the commercial units in the Proposed Development.

Table 10 Building System Properties – Non-Residential

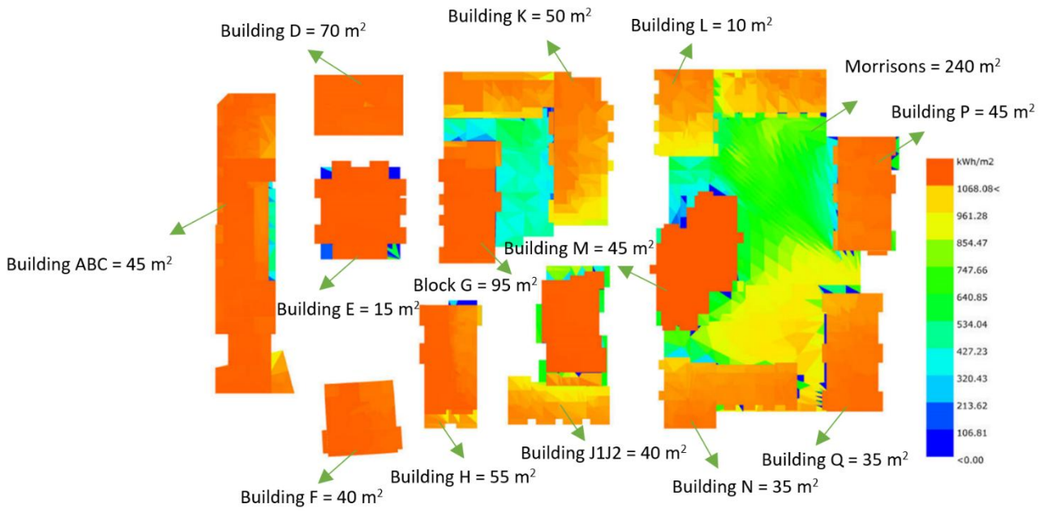
System Type	Specification	Notes
MVHR	SFP = 1.5 W/(l/s) Heat Recovery Efficiency = 80% Variable speed controller	-
VRF	SCOP = 5* SEER = 6*	-
DHW - ASHP	SCOP = 3 **	-
Low energy light	Luminaire Efficacy = 120 lm/W Display Light Source Efficacy = 85 lm/W	-

*Based on Manufacturer data for high efficiency VRF units part L efficiencies
**Based on Manufacturer data for Air to water heat pumps

2. PV panels along with applying heat pump systems for the non-domestic spaces: In addition to incorporating heat pumps as a LZC technology, the proposal includes PV panels to further reduce site CO_2 emissions. PV panels offset the higher electrical demands of heat pumps and are cost-effective, typically paying for themselves within 10 years. Additionally, they would reduce the annual carbon offset payments for 30 years post-completion. The energy assessment confirms these measures effectively lower energy consumption and carbon emissions.

5.3 Photovoltaics

Figure 8 shows the incident solar radiation on the blocks, and Figure 9 shows incident solar radiation on buildings' roofs and the required PVs areas for each building. For detailed Plan, please refer to Appendix J.



Total PVs Area = 820 m²

Figure 13 The incident solar radiation on the buildings' roofs and the required PVs areas for each building

The table below summarises an initial estimation of the area of PVs required for communal corridors, commercial areas, and Morrisons.

Table 11 Communal Corridors, commercial areas and Morrisons PVs

Building	Communal Corridors PVs (m²)	Commercial Areas and Morisons PVs (m²)	Total PVs Area (m²)
ABC	20	25	45
D	25	45	70
E	15	-	15
F	15	25	40
G	45	50	95
H	25	30	55
J1J2	30	10	40
K	25	24	49
L	10	-	10
M	45	1	46
N	30	5	35
P	45	-	45
Q	35	-	35
Morrisons	-	240	240
Total	**365 m²**	**455 m²**	**820 m²**

The following figures present the proposed PV roof level layouts across the proposed development.

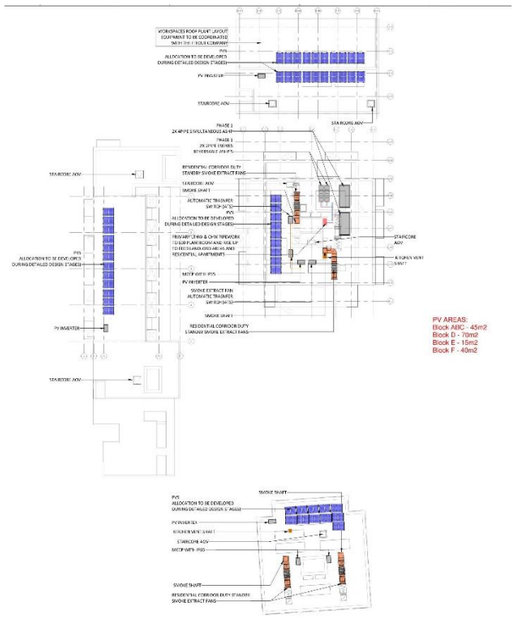


Figure 14: PHASE 3 MEP Services Phase 2 Aylesham – Combined Services Roof Level MEP Layout

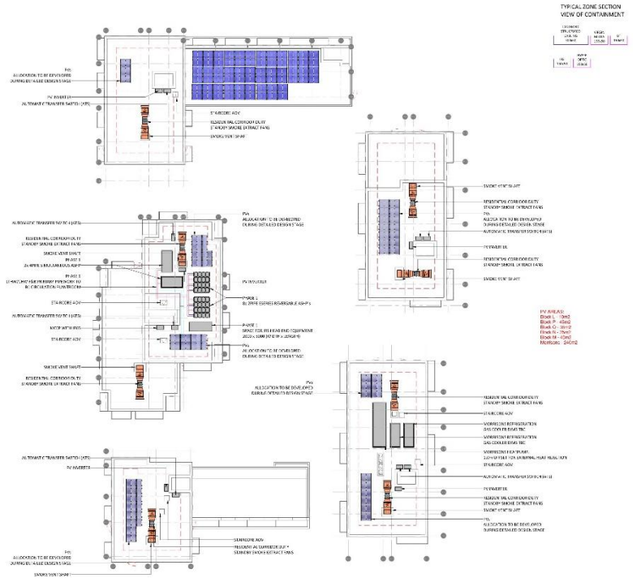


Figure 15: PHASE 3 MEP Services Phase 2 Aylesham – Combined Services Roof Level MEP Layout

5.4 Be Green Energy Assessment Results

5.4.1 Residential

Detailed SAP calculations have been conducted for all residential units in each tower based on Be Lean parameters. Overall, the scheme will achieve on-site savings of 63.03%. The table below summarises the Be Green results.

Table 12 Residential Be Green SAP calculations levels

Building	Area (m^2)	DER ($kgCO_2/yr/m^2$)	TER ($kgCO_2/yr/m^2$)	Savings (%)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	Savings (%)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	Savings (%)
ABC	4581	4.88	13.46	63.74%	31.13	31.14	0.49%	51.9	70.43	26.30%
E	4643	4.96	13.67	63.72%	27.31	28.55	3.93%	52.99	72.49	26.89%
F	1704	4.13	11.99	65.55%	28.28	28.94	2.26%	43.85	61.83	29.07%
G	4811	4.68	13.16	64.44%	27.53	28.72	4.15%	49.93	69.89	28.56%
H	3451	4.37	12.19	64.15%	26.42	26.63	0.75%	46.62	63.68	26.78%
J1J2	8851	4.46	12.64	64.72%	23.74	24.64	3.65%	47.68	67.36	29.21%
K	5897	4.41	12.39	64.41%	24.25	25.07	3.28%	47.15	65.48	28.00%
L	5675	4.47	12.38	63.89%	22.96	24.43	6.02%	47.86	64.99	26.39%
M	10790	4.39	12.88	65.92%	24.25	26.48	8.53%	46.98	68.86	31.77%
N	3632	5.19	13.77	61.92%	24.53	25.09	2.40%	55.53	73.98	24.94%
P	4362	3.91	11.6	66.29%	25.58	25.48	2.83%	41.74	61.01	31.57%
Q	2056	4.57	12.22	62.60%	27.06	26.83	2.83%	48.78	63.19	22.81%
Total	60451	4.54	12.70	64.28%	26.09	26.83	2.83%	48.42	66.93	27.69%

5.4.2 Non-Residential

The non-residential energy assessment has considered the supermarket, commercial units, communal corridors and any associated areas as separate spaces, while spaces which are unheated (e.g. stores) are excluded in Part L.

The scheme will achieve an overall on-site reduction of 36.96 % for commercial areas and 35.02% for Morrisons, with a 36.75% reduction for communal corridors compared to Building Regulations Part L. The tables below summarise the BRUKL output based on Be Green parameters.

Table 13 BRUKLs Summary for Commercial Units - Be Green

Building	Area [m2]	Heating + Cooling Demand [MJ/m^2/annum]		Primary Energy [kWh/m^2/annum]		Total Emissions [KgCO2/m^2/annum]		
ABC	1245.2	152.84	159.44	37.88	58.97	3.5	5.42	35.42%
D	2725.3	96.57	108.65	23.95	37.44	2.21	3.42	35.38%
E	341	329.65	282.65	75.06	122.78	6.96	11.28	38.30%
F	208.2	190.28	208.32	52.64	114.33	4.99	10.46	52.29%
G	276.2	271.93	252.39	70.53	114.48	6.5	10.48	37.98%
H	244.2	302.5	296.91	86.06	142.49	7.97	13.06	38.97%
J1J2	125.3	308.94	207.46	38.55	63.9	3.51	5.89	40.41%
K	1259.4	117	127.19	33.46	52.22	3.09	4.78	35.36%
L	16.5	310.51	228.22	40.28	71.35	3.7	6.61	44.02%
N	97.4	226.11	166.76	36.74	60.7	3.34	5.55	39.82%
Morrisons	2252.92	141.8	111.32	34.82	54.23	3.2	4.94	35.22%
Site Wide	8791.62	146.41	140.31	36.30	58.08	3.35	5.31	36.93%

Table 14 BRUKLs Summary for Communal Corridors - Be Green

Building	Area [m^2]	Heating + Cooling Demand [MJ/m^2/annum]		Primary Energy [kWh/m^2/annum]		Total Emissions [KgCO2/m^2/annum]		
		Actual	Notional	Actual	Notional	Actual	Notional	Savings
ABC	371	15.84	26.82	7.7	12.39	0.8	1.24	35.48%
D	153	39.11	62.92	15.46	25.29	1.64	2.53	35.18%
E	593.1	0.93	1.36	5.36	8.63	0.52	0.81	35.80%
F	244.6	6.82	7.42	3.41	5.92	0.38	0.60	36.67%
G	858	9.95	17.91	7.91	12.54	0.79	1.22	35.25%
H	582.2	4.85	13.18	6.76	11.16	0.66	1.08	38.89%
J1J2	1196.3	2.59	3.53	6.15	10.11	0.60	0.95	36.84%
K	1120.8	4.96	12.48	6.66	10.34	0.64	1.00	36.00%
L	874.1	2.21	11.8	5.91	9.54	0.56	0.93	39.78%
M	2207.5	0.16	0.59	5.43	8.78	0.51	0.82	37.80%
N	797.5	20.31	35.72	10.26	17.85	1.06	1.75	39.43%
P	891.2	6.34	13.78	6.64	11.12	0.66	1.06	38.32%
Q	453.3	13.1	23.8	5.96	10.35	0.63	1.05	40.00%
Site Wide	10342.6	6.20	12.24	6.65	10.88	0.66	1.05	37.54%

6 Be Seen

In order to effectively contribute to the “reduce” stage within the carbon hierarchy throughout the project lifetime, there shall be a measurement and monitoring framework to identify the potentials of carbon reduction opportunities related to incorporating rising technologies.

This is a crucial measure where smart metering can be integrated in BMS will facilitate:

A. Benchmark its operational carbon footprint
B. Identify operational opportunities to reduce carbon footprint
C. Assist in transparent carbon footprint reporting as part of offsetting framework to achieve carbon neutrality

This data can be essential in the Journey towards net zero where various operational and maintenance decisions can be taken to reduce the operational carbon emissions of the buildings. The data can be used in simulation models where cutting-edge technologies can be studied as they become available in the market to evaluate its sustainability benefits.

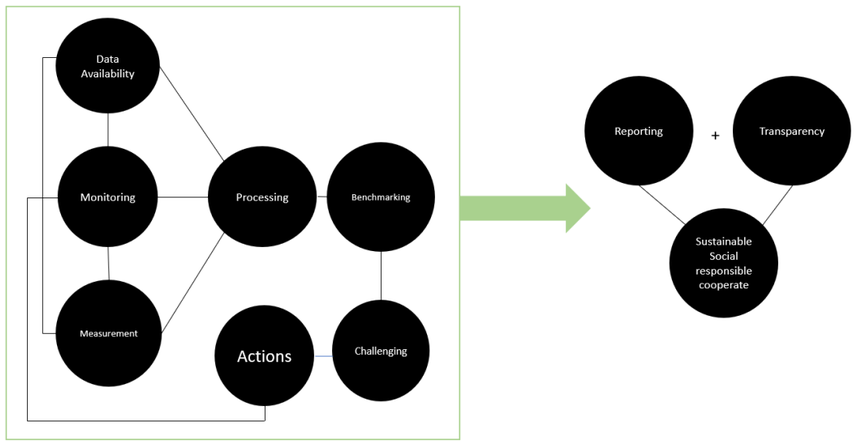


Figure 16 Metering and Monitoring role in Carbon footprint reporting

7 Quality Assurance

The development’s energy strategy will incorporate various quality assurance mechanisms to safeguard consumers against high prices, in line with the **GLA Energy Assessment Guidance (June 2022)**. These measures include:

- Designing and installing the system in compliance with the **CIBSE Code of Practice (CP1)**, where applicable.
- Ensuring **transparent billing**, with a clear distinction between ongoing maintenance costs and capital replacement charges in the standing fee.
- Providing **accessible customer service facilities** to support vulnerable tenants, including individuals with physical or mental health conditions, disabilities, additional communication needs, financial insecurity, low income, or those experiencing bereavement. This includes:
    - Ensuring fair treatment of all customers.
    - Offering alternative heating sources to vulnerable tenants during supply interruptions as part of the aftercare process.
    - Preventing the suspension of heating for vulnerable tenants during winter.
    - Providing assistance to help tenants understand their bills and statements.
- **Registering the heat network** with the relevant regulatory authority.
- **Integrating renewable energy generation** as part of the development's energy strategy.

Predicted Energy Costs

Energy cost estimations for occupants have been calculated with the goal of protecting consumers from high prices. Reducing energy demand for residents has been a priority, as demonstrated by the measures implemented at the Be Lean stage, which focuses on enhancing the building fabric throughout the development.

In addition to the use of high-performance building fabric with improved U-values, the development benefits from self-shading features provided by apartment balconies with relatively low glazing g-value

At the Be Seen stage, energy monitoring measures help further reduce costs for occupants. Each apartment is equipped with energy meters, allowing residents to track and manage their daily energy consumption. Additionally, occupants have the freedom to choose their energy provider, enabling them to opt for more competitive tariffs.

The estimated annual energy cost for a typical apartment within the development is £1,100 for 1B apartment and 1,400 for 2 B Apartment This figure is based on SAP calculation data. The total energy consumption for each of these units is derived by summing usage from:

- Space and water heating
- Space cooling
- Pumps and fans
- Electric keep-hot functions
- Lighting
- Additionally, approximations for cooking and appliance energy use are included in the calculation.

The total annual energy consumption is then multiplied by the current quarter's electricity rate of 26.2p/kWh.

This estimate excludes service and maintenance costs.

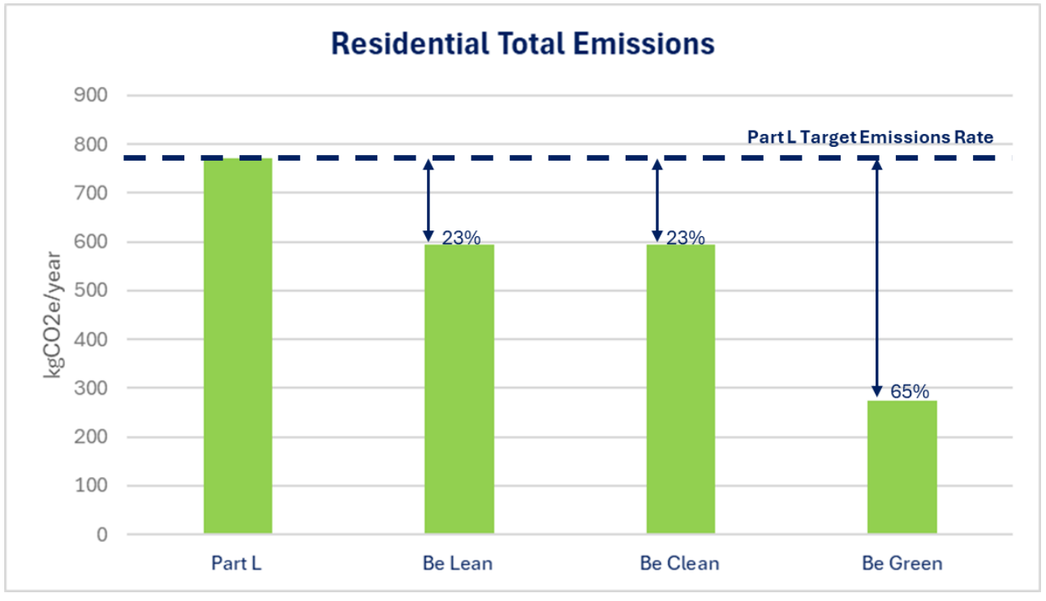
8 Summary of Results

8.1 Residential Summary Results

Table 15 Residential CO2 Emissions

Residential			
CO_2 Emissions after each stage of the Energy Hierarchy			
	(Tonnes CO_2 / year)	Cumulative Savings (%)	(Tonnes CO_2 / year)
	Regulated CO_2 Emissions		Unregulated CO_2 Emissions
Part L	770.3	-	-
Be Lean	594.9	23%	-
Be Clean	594.9	23%	-
Be Green	273.5	65%	268.64

Additional exercise has been conducted to quantify the extra energy savings from the proposed HVAC system design, efficiency, and other on-site renewable sources compared to the baseline system efficiencies per SAP 10.2 Part L. This is to quantify the additional Be Green savings compared to a low carbon baseline using the Part L 2 methodology. The emphasis is on the development and innovation aimed at further reducing operational energy consumption and carbon emissions, which are currently not adequately represented by the Part L 1 non-low carbon baseline.



**Currently there is no potential for a heat network to be connected to the site – See Section 4.1*

Figure 17 Energy Hierarchy - Residential – Emissions Rate

8.2 Non-Residential Summary Results

The non-residential elements of the Aylesham Centre have been assessed in accordance with the Energy Hierarchy. The following figures and table present the savings achieved by the commercial units and communal areas at each stage of the Energy Hierarchy approach.

Table 16 Commercial CO2 Emissions - Cumulative Savings

Commercial			
CO_2 Emissions after each stage of the Energy Hierarchy			
	(Tonnes CO_2 / year)	Cumulative Savings (%)	(Tonnes CO_2 / year)
	Regulated CO_2 Emissions		Unregulated CO_2 Emissions
Part L	46.71	-	-
Be Lean	38.48	17.6%	41.04
Be Clean	38.48	17.6%	41.04
Be Green	29.46	36.93%	41.04

Table 17 Communal Corridors CO2 Emissions - Cumulative Savings

Communal Areas			
CO_2 Emissions after each stage of the Energy Hierarchy			
	(Tonnes CO_2 / year)	Cumulative Savings (%)	(Tonnes CO_2 / year)
	Regulated CO_2 Emissions		Unregulated CO_2 Emissions
Part L	10.85	-	-
Be Lean	6.96	35.84%	18.47
Be Clean	6.96	35.84%	18.47
Be Green	6.78	37.48%	18.47

Table 18 Communal Corridors CO2 Emissions - Cumulative Savings

Commercial & Communal Corridor Savings – GLA Template			
CO_2 Emissions after each stage of the Energy Hierarchy			
	(Tonnes CO_2 / year)	Cumulative Savings (%)	(Tonnes CO_2 / year)
	Regulated CO_2 Emissions		Unregulated CO_2 Emissions
Part L	57.56	-	-
Be Lean	45.44	21.0%	13.58
Be Clean	45.44	21.0%	13.58
Be Green	36.24	37.0%	13.58

Table 19: Energy Hierarchy – GLA Non-Residential Total Combined Emissions Savings

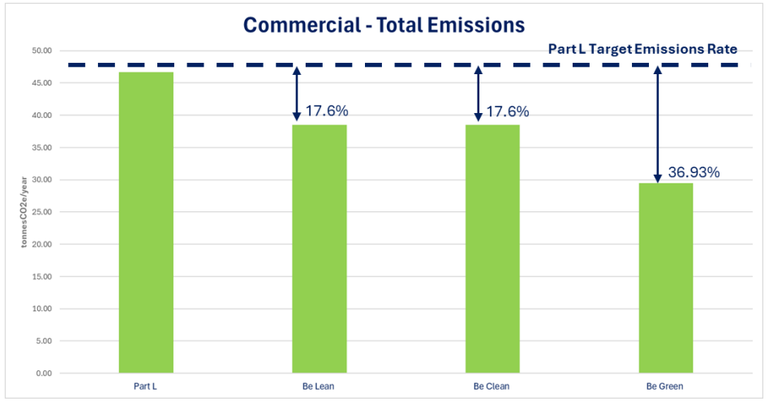


Figure 18: Commercial - Total Emissions

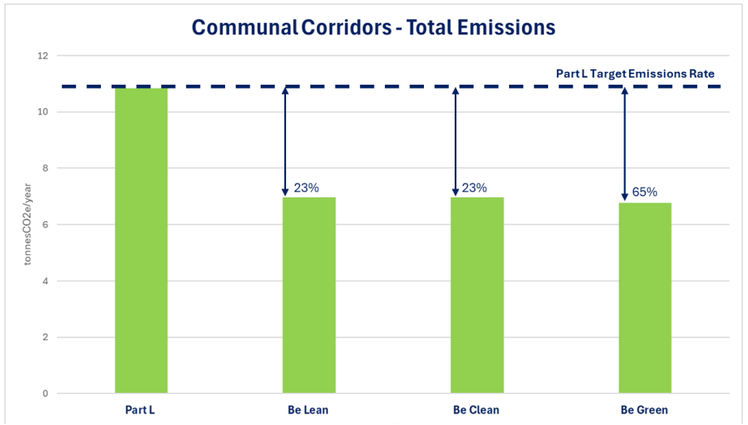


Figure 19: Commercial - Total Emissions

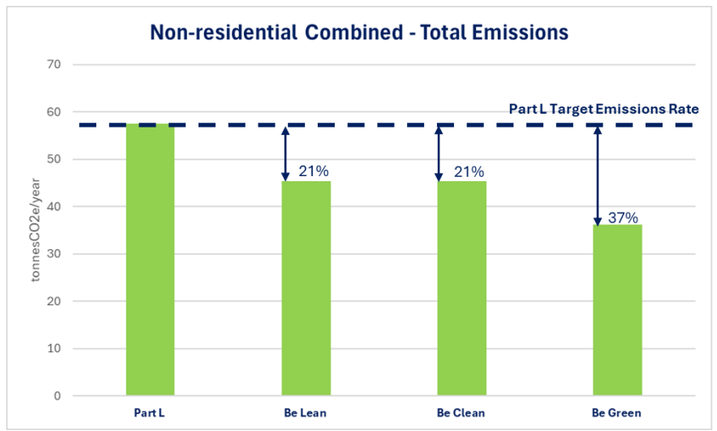


Figure 20: Non-residential Total Emissions

9 Electrification of energy sources and operational air quality enhancement

Electrification refers to the process of replacing technologies that use fossil fuels (coal, oil, and natural gas) with technologies that use electricity as a source of energy. Depending on the resources used to generate electricity, electrification can potentially reduce carbon dioxide (CO_2) emissions from the transportation and building sectors. Addressing emissions from these sectors is critical to decarbonizing the economy and, ultimately, mitigating the impacts of climate change as highlighted in the future building regulations.

With continuous decarbonization of the grid which increasingly relies on emission less energy sources as nuclear power and off and on shore renewable energy sources, technologies that use electricity as a fuel source result in lower carbon dioxide emissions on average than those that use fossil fuels directly. Additionally, the electricity grid is expected to become even cleaner over time as the aim is to increase the amount of electricity generated by zero-carbon sources. Therefore, the benefits associated with electrification will likely grow in the future as electricity generation becomes less carbon intensive.

Additionally, switching to electric heating and cooking technologies can have substantial air quality benefits. Some electric appliances can be better for indoor air quality than their fossil fuel-based counterparts—natural gas cooking stoves, for example, release carbon monoxide, nitrogen dioxide, and other harmful pollutants when in use.

As one of the expected major energy ends uses for development, Hot water generation resembled for long time a challenge to be electrified since gas boiler provided unchallenged convenient and reliable source of hot water generation. Other electric sources were burdened by the hefty bills of using such solutions where ASHP usually backed up with electric immersion heaters or even other gas boiler to reach the required hot water supply temperature which compromises the overall gained efficiency of such system. However, multiple technologies nowadays resolved this dilemma with ASHP systems capable to generate hot water at the required supply temperature without the need of the backup heaters, keeping the efficiency advantage and providing a precritical solution to achieve full electrification of the built energy sources.

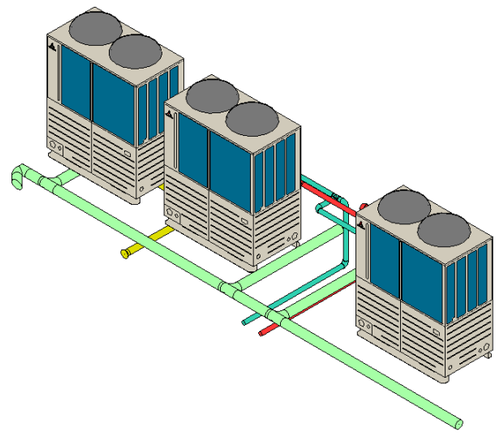


Figure 21 ASHP for hot water generation

10 Other Low and Zero Carbon Technologies

10.1 Wind Power

To evaluate the suitability for wind power generation it is necessary to undertake a full survey and analysis of the site to ascertain the likely wind speeds available to support the viability of wind generation.

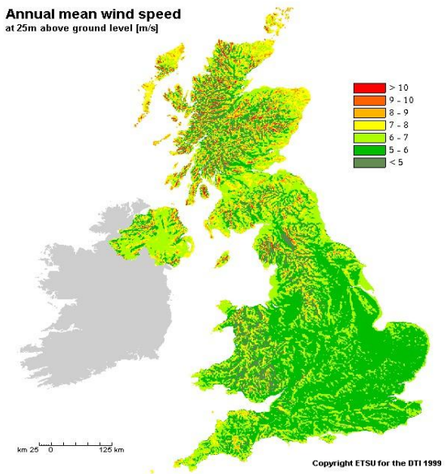


Figure 22 Annual mean wind speed

British Wind Energy Association (BWEA) wind data base suggests that wind speed at the site would be around 4-6m/s at 25m could support small wind turbine, however, annual load generation will be relatively low. Based on Wind analysis section, the wind speed in the stadium area will not support wind turbine as effective renewable energy source.

Installation of wind turbines would have a negative effect on the architectural character of the building. This issue aside, wind turbines can have a detrimental effect on telecommunications in the vicinity of their location. Given the surroundings of the stadium in the middle of urban residential areas which puts a limiting factor on location of the wind turbine installation. Wind patterns in urban areas can be very turbulent and are not the best conditions to yield a good output from small scale wind turbines.

In addition, planning requirements from the local authority regarding potential noise from the wind generators would have to be considered. It is likely that during the day sound levels would not be noticeable but at night with lower background levels this could be invasive to the buildings.

Based on the above information, it would be reasonable to conclude that, even without a technical review of the installation costs, the requirements for maintenance and the installation restraints are unlikely to support the installation of electrical wind generation for this development. Therefore, this option is excluded.

10.2 Hydrogen Fuel Cells

Hydrogen fuel cells have been considered for use within the building but have been discounted due to the current lack of a commercially viable source of hydrogen. Many current installations are known to be running on natural gas to generate the Hydrogen fuel until the hydrogen becomes available from sustainable non-fossil fuel-based source. Utilization of organic food decomposition and anaerobic digestion process to generate Biogas which can be used in generating Hydrogen fuel is other more environmentally friendly emission less process, however, the area footprint of such system is huge and will require specialist operation to maintain the process flow with expected complicated maintenance for such multiprocessor system.

10.3 Ground Source Heat Pump

Ground source systems provide the opportunity to obtain both heating and cooling via water to water or water to refrigerant heat pumps. This technology can reduce the demand for conventional energy and thus reduce overall CO_2 emissions. They do however have limited effect in reducing CO_2 emission levels compared to the other renewable energy technologies.

Geothermal technology can be utilised virtually anywhere in the UK and be installed under landscape areas and car parks. A more efficient and less expensive option is to utilise a nearby body of water for heat extraction/rejection. Geothermal systems provide the opportunity to connect to water-to-water heat pump units for heat rejection and to VRF heat pump units for cooling and heating.

VRF system heat pumps using inverter controls on the compressors can provide improved energy efficient operation, where the heating and cooling input are mixed so that the actual load is limited to the resultant difference thereby further reducing the energy input.

Installing a ground source system will require approval from the environment agency to pump heat in and out of the ground. As a large system would be required for the project, it is not known how the ground conditions will react to such a large system, and there are risks associated with ecology that will affect the size of system that will be possible. The area requirements for the blow grade pipe work will be constrained by the surrounding infrastructures for the surrounding residential area

It has been concluded that a GSHP is not viable due to ecological implications and Impracticality for the project.

10.4 Biomass Boilers

Biomass technology could be installed as part of the central heating provision. The most economical option and the best for reducing CO_2 emission levels would normally be to install Biomass Boilers to act as the lead boiler to cater for the base hot water heating load with the remaining gas fueled boilers sized to meet the total heating load and to form a standby facility.

The Bio-energy boiler system would require the installation of additional components for the storage of the wood chips or pellets used as fuel, along with the necessary transportation components to link between the storage hoppers and the boiler.

Wood chips or pellets would need to be stored in external or internal hoppers. The amount of wood chips or pellets stored will affect the choice of the silo or bunker storage types. Storage systems require sufficient space for large delivery vehicle to ‘shoot’ the wood fuel directly into the storage facility.

The wood chips or pellets are transferred from the storage facility by screw or similar transportation system linking between the wood hoppers and the boiler house.





The waste combustion products from the boilers (in the form of ash) can either be removed manually or automatically using screw feed units direct to a collection skip. This plant ash is an inert ash and can be used as fertiliser assuming that the wood is obtained from clean sources (i.e., nonindustrial, and not contaminated with plastics). The use of automatic removal of the plant ash will reduce maintenance costs but increase the initial capital installation costs.

Wood burning boilers have comparable combustion efficiencies as basic gas fired systems. The fluing requirements for modern wood fired boilers are comparable with those of gas fired systems and the emissions are like that of gas fired units. Where the heat output to water is above 300kW (400kW input) there is a requirement under the clean air regulations when using waste wood to install continuous flue monitoring of the waste gas products. These systems are relatively expensive to install and maintain.

Biomass Boilers can also operate on a modulating basis to vary the heat output. Boilers can operate as low as 30% of their maximum load they do, however require additional plant room area then the standard models.

The installation of Biomass Boiler with pellet storage as the main heating boiler is not a viable option when CHP plant is proposed, as the majority of the base heating would be provided by CHP. Biomass boilers also cause other issues such as fuel storage, which need to be maintained in a dry storage area. With space being at a high premium in the project, it is not anticipated that biomass fuel store will be a provision that is easy to make.

Biomass boilers will require the associated flues to terminate above the highest point of the building presenting obvious issues in this high-rise development. This will mean that the architectural character of the building will be fundamentally changed to these flue requirements.

Biomass is therefore discounted as a feasible and viable option for the project.

10.5 Solar Thermal, Hot Water Generation

The use of solar heating for hot water generation would require the installation of solar panels at roof level. Ideally the panels should be aligned in a southerly direction with a tilt of between 30° and 40°.

Solar thermal panels will also require to be mounted in areas that are unshaded. The potential, therefore, of incorporating solar thermal is limited as it would compete for roof space with the PVs system that would feed ASHP How water system generating 4 W of hot water for each W of generated electrical energy while Solar hot water system ideally generates 1 W for every 1 W of absorbed Solar energy. With minimum 4 to 1 advantage for ASHP hot water generation, expansion of electricity generating PVs is always superior to solar hot water solutions.

10.6 Combined heat and Power generation (CHP)

Micro CHP system is one of the low carbon technology options However, it is one of the systems that is fed by mains gas to have both thermal and electrical power output. This one of low carbon technologies which are not encouraged to be adopted as preferred design option in built environment as it still uses main gas as its fuel source.

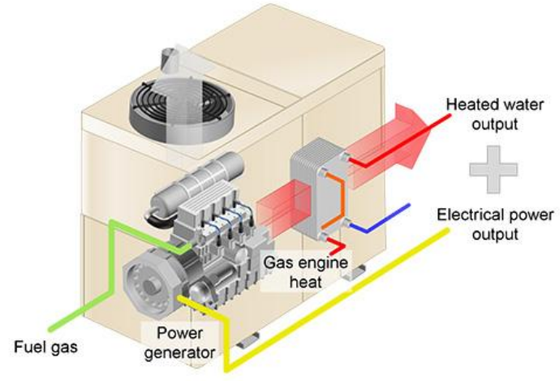


Figure 23 Micro CHP system

11 Overheating Assessment

11.1 CIBSE TM 59 Compliance

TM59 methodology recommends a full written report that documents the following details for the assessment: dynamic thermal analysis software name and version used for the assessment, which must comply with the requirements of CIBSE AM11: Building performance modelling (2015b)

- Site location and orientation
- Images of the model indicating the sample units selected and the basis for selection.
- Images showing the internal layouts for the sample units.
- Information on the construction type with layers of construction (used to determine U-values and g-values) for all external and internal building elements, plus any additional shading features (including any blinds, and demonstrating that the blinds do not clash with opening windows if blinds are used to contribute to a pass)
- Thermal mass, with a written explanation of where the thermal mass is incorporated in the construction.
- The ventilation strategy modelled, including details of window opening assumptions, free areas calculated, infiltration rates assumed and any mechanical supply/extract flow rates.
- The weather file(s) used for the assessment. Noting that London DSY 2020 weather files have been used in the assessment.

Due to acoustics constraints, the apartments are proposed to adopt either mixed mode or fully mechanical ventilation strategies. Per CIBSE TM59, for homes which are predominantly mechanically ventilated, the CIBSE fixed temperature test must be followed, i.e., all occupied rooms should not exceed an operative temperature of 26 ˚C for more than 3% of the annual occupied hours (CIBSE Guide A (2015a))

Reliance on the Natural ventilation has also been assessed as part of the study.

Design summer years (DSY) should always be used for analysis of overheating, and it is good practice to take into account future weather files.

However, a minimum requirement for passing the test is proposed here by using a single DSY (DSY1), with the use of additional weather files recommended to explore performance where there is particular concern (e.g., the presence of vulnerable occupants) and/or demonstrating mitigation options under more extreme events (e.g. heatwaves). The analysis based on additional weather files can be used to develop a heatwave plan. As part of this study is Future weather files assessment.

Accordingly, additional assessments based on DSY 2 and 3 and future weather file based on London DSY H 2050 has been completed and provided as part of this assessment.

CIBSE TM59 provides a complete set of Occupancy and internal gains profile which has been accounted for in the simulations. From Behaviour perspective it is assumed for the sake of this analysis, that heating system operation is liked to occupancy such that during uncopied hours the occupants will switch off heating.

The following figures show the profiles for each type as detailed in CIBSE TM59.

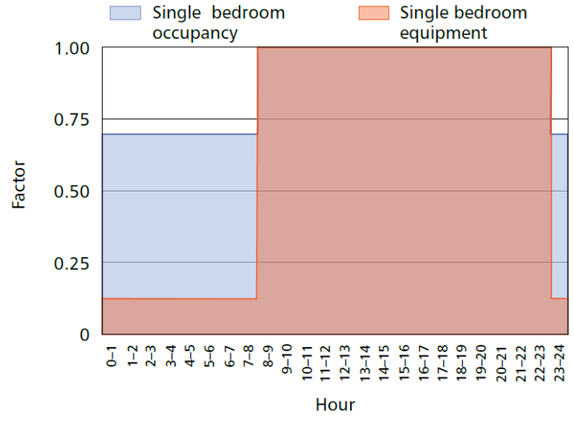


Figure 24 Single Bedroom Profiles

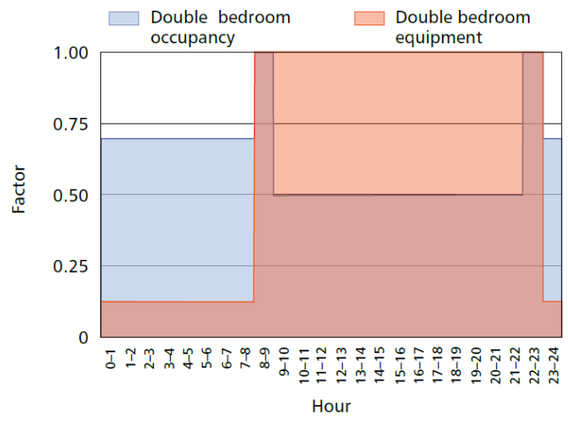


Figure 25 Double Bedroom Profiles

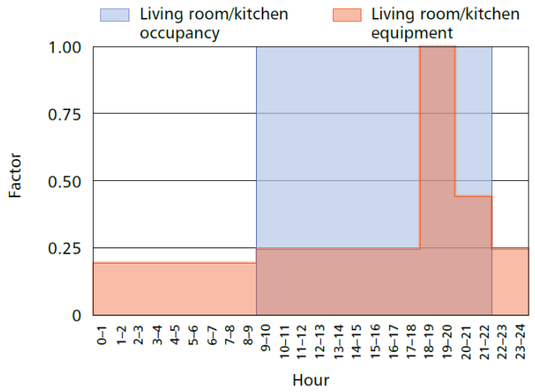


Figure 26 Combined Living/Kitchen Profiles

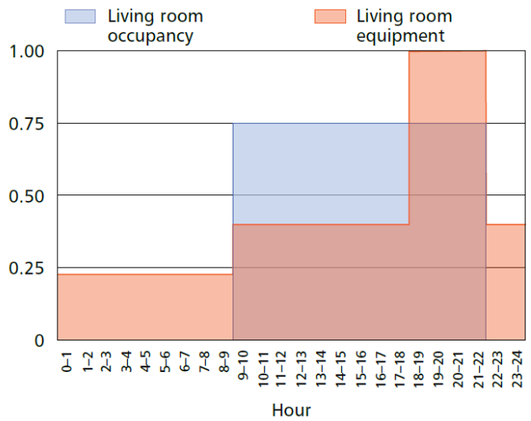


Figure 27 Living room profile

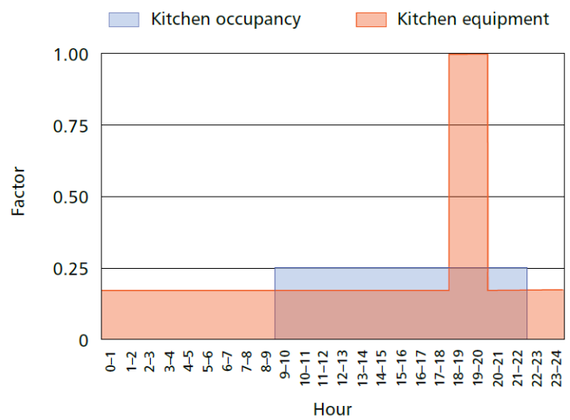


Figure 28 Kitchen Profiles

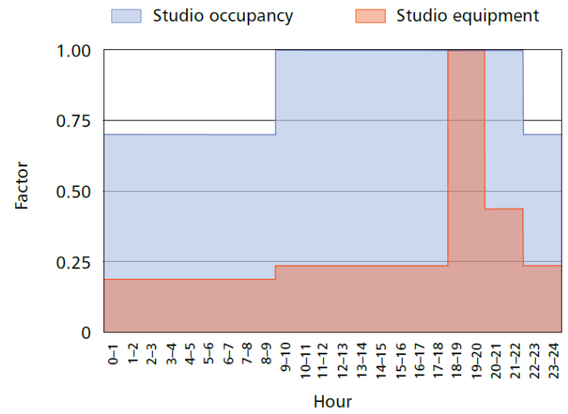


Figure 29 Studio Profiles

11.2 Approved Document Part O

To demonstrate compliance using the dynamic thermal modelling method, all of the following guidance should be followed.

CIBSE's TM59 methodology for predicting overheating risk.

- The limits on the use of CIBSE's TM59 methodology
- The acceptable strategies for reducing overheating risk within Part O
- The building control body should be provided with a report that demonstrates that the residential building passes CIBSE's TM59 assessment of overheating.

Limits on CIBSE's TM59 modelling

CIBSE's TM59 method requires the modeller to make choices. These limits should be applied when following the guidance in CIBSE's TM59.

When a room is occupied during the day (8am to 11pm), openings should be modelled to do all of the following.

- Start to open when the internal temperature exceeds 22°C.
- Be fully open when the internal temperature exceeds 26°C.
- Start to close when the internal temperature falls below 26°C.
- Be fully closed when the internal temperature falls below 22°C.

At night (11pm to 8am), openings should be modelled as fully open if both of the following apply.

- The opening is on the first floor or above and not easily accessible.
- The internal temperature exceeds 23°C at 11pm.

When a ground floor or easily accessible room is unoccupied, both of the following apply.

In the day, windows, patio doors and balcony doors should be modelled as open, if this can be done securely, following the guidance below.

- At night, windows, patio doors and balcony doors should be modelled as closed.
- An entrance door should be included, which should be shut all the time.

Acceptable strategies for reducing overheating risk.

Solar gains in summer should be limited by any of the following means.

- Fixed shading devices, comprising any of the following.
    - Shutters.
    - External blinds.
    - Overhangs.
    - Awnings.
- Glazing design, involving any of the following solutions.
    - Size.
    - Orientation.
    - g-value.
    - Depth of the window reveal.
    - Building design – for example, the placement of balconies.

Shading provided by adjacent permanent buildings, structures, or landscaping.

Although internal blinds and curtains provide some reduction in solar gains, they should not be taken into account when considering whether requirement O1 has been met.

Foliage, such as tree cover, can provide some reduction in solar gains. However, it should not be taken into account when considering whether requirement O1 has been met.

Removing excess heat

Excess heat should be removed from the residential building by any of the following means.

- Opening windows (the effectiveness of this method is improved by cross-ventilation).
- Ventilation louvres in external walls.
- A mechanical ventilation system.
- A mechanical cooling system

The building should be constructed to meet requirement O1 using passive means as far as reasonably practicable. It should be demonstrated to the building control body that all practicable passive means of limiting unwanted solar gains and removing excess heat have been used first before adopting mechanical cooling. Any mechanical cooling (air-conditioning) is expected to be used only where requirement O1 cannot be met using openings.

NOTE: Any method to reduce overheating risk in residential buildings must comply with all other parts of the Building Regulations. Particular attention should be paid to the requirements of Part F and the guidance in Approved Document F, Volume 1: *Dwellings* on noise and maintenance.

NOTE: A system for purge ventilation should be provided in each habitable room to demonstrate compliance with Part F of the Building Regulations. The guidance in Section 1 of Approved Document F, Volume 1: *Dwellings* should be followed for the minimum standards for purge ventilation. A larger amount of purge ventilation may be required than that in Approved Document F, Volume 1: *Dwellings* in order to satisfy requirement O1 on providing an adequate means to remove excess heat from the indoor environment.

Based on the below London Overheating risk map extracted from Part O, Aylesham centre is within high overheating risk area.

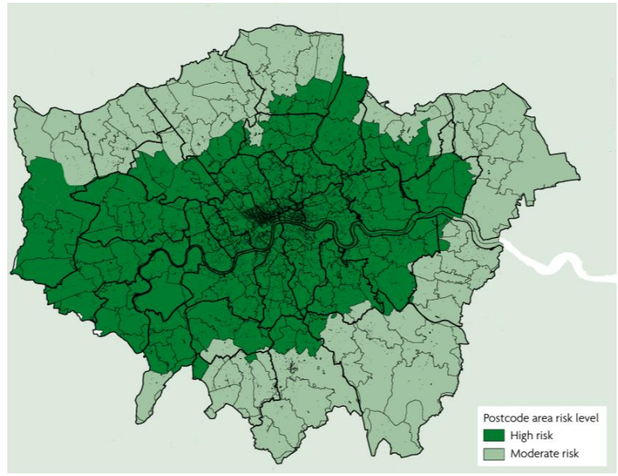
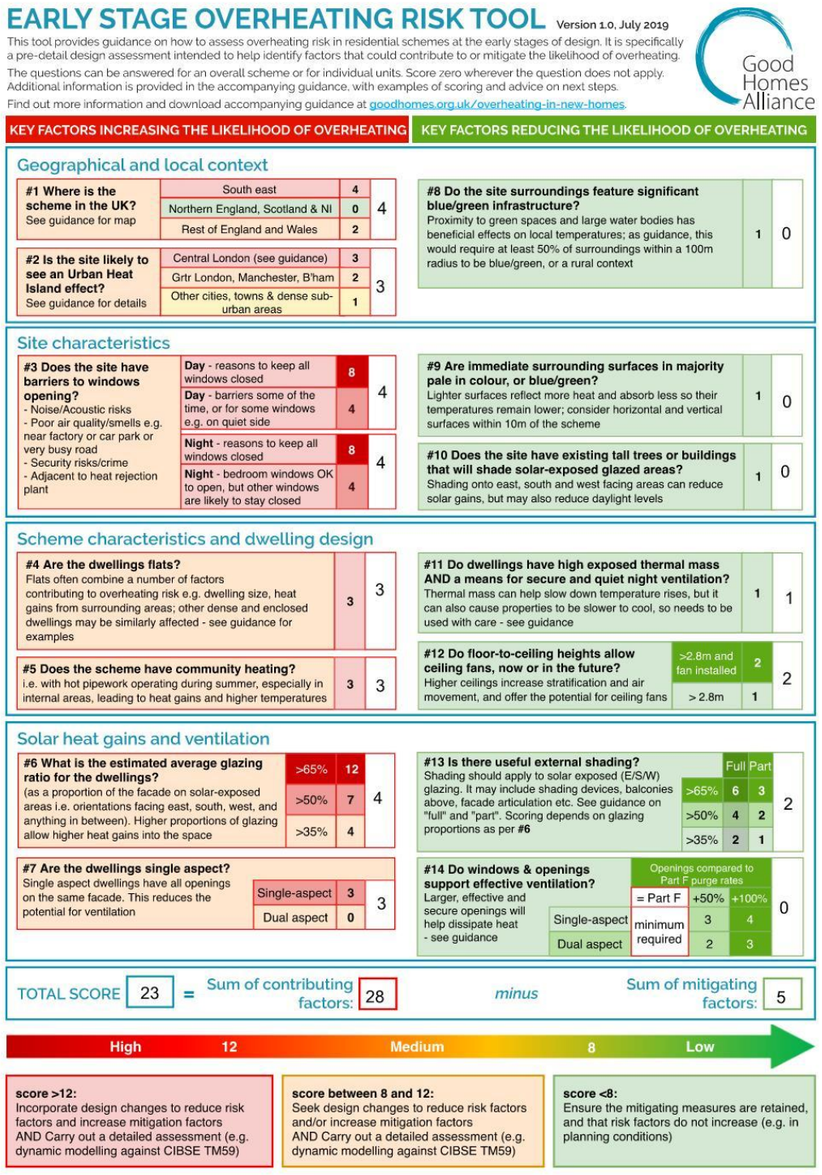


Figure 30:Overheating risk at postcode area level in the high-risk part of London.

This has been verified via the Good Homes Alliance Early Stage Overheating Risk Tool presented below (the tool has been prepared with the worst case scenario). The overall score exceeds 12 and accordingly, a detailed assessment via dynamic thermal modelling using CIBSE TM59 methodology has been completed with the mitigation measures defined as need for each area within the site.



EARLY STAGE OVERHEATING RISK TOOL Version 1.0, July 2019

This tool provides guidance on how to assess overheating risk in residential schemes at the early stages of design. It is specifically a pre-detail design assessment intended to help identify factors that could contribute to or mitigate the likelihood of overheating.

The questions can be answered for an overall scheme or for individual units. Score zero wherever the question does not apply. Additional information is provided in the accompanying guidance, with examples of scoring and advice on next steps.

Find out more information and download accompanying guidance at goodhomes.org.uk/overheating-in-new-homes.

Good Homes Alliance

KEY FACTORS INCREASING THE LIKELIHOOD OF OVERHEATING | KEY FACTORS REDUCING THE LIKELIHOOD OF OVERHEATING

Geographical and local context

#1 Where is the scheme in the UK? See guidance for map	South east	4	4
	Northern England, Scotland & NI	0	
	Rest of England and Wales	2	
#2 Is the site likely to see an Urban Heat Island effect? See guidance for details	Central London (see guidance)	3	3
	Grtr London, Manchester, B'ham	2	
	Other cities, towns & dense sub-urban areas	1	

#8 Do the site surroundings feature significant blue/green infrastructure? Proximity to green spaces and large water bodies has beneficial effects on local temperatures; as guidance, this would require at least 50% of surroundings within a 100m radius to be blue/green, or a rural context		1	0

Site characteristics

#3 Does the site have barriers to windows opening? - Noise/Acoustic risks - Poor air quality/smells e.g. near factory or car park or very busy road - Security risks/crime - Adjacent to heat rejection plant	**Day** - reasons to keep all windows closed	8	4
	Day - barriers some of the time, or for some windows e.g. on quiet side	4	
	Night - reasons to keep all windows closed	8	4
	Night - bedroom windows OK to open, but other windows are likely to stay closed	4	

#9 Are immediate surrounding surfaces in majority pale in colour, or blue/green? Lighter surfaces reflect more heat and absorb less so their temperatures remain lower; consider horizontal and vertical surfaces within 10m of the scheme		1	0
#10 Does the site have existing tall trees or buildings that will shade solar-exposed glazed areas? Shading onto east, south and west facing areas can reduce solar gains, but may also reduce daylight levels		1	0

Scheme characteristics and dwelling design

#4 Are the dwellings flats? Flats often combine a number of factors contributing to overheating risk e.g. dwelling size, heat gains from surrounding areas; other dense and enclosed dwellings may be similarly affected - see guidance for examples		3	3
#5 Does the scheme have community heating? i.e. with hot pipework operating during summer, especially in internal areas, leading to heat gains and higher temperatures		3	3

#11 Do dwellings have high exposed thermal mass AND a means for secure and quiet night ventilation? Thermal mass can help slow down temperature rises, but it can also cause properties to be slower to cool, so needs to be used with care - see guidance		1	1
#12 Do floor-to-ceiling heights allow ceiling fans, now or in the future? Higher ceilings increase stratification and air movement, and offer the potential for ceiling fans	>2.8m and fan installed	2	2
	> 2.8m	1	

Solar heat gains and ventilation

#6 What is the estimated average glazing ratio for the dwellings? (as a proportion of the facade on solar-exposed areas i.e. orientations facing east, south, west, and anything in between). Higher proportions of glazing allow higher heat gains into the space	>65%	12	4
	>50%	7	
	>35%	4	
#7 Are the dwellings single aspect? Single aspect dwellings have all openings on the same facade. This reduces the potential for ventilation	Single-aspect	3	3
	Dual aspect	0	

		Full	Part	
#13 Is there useful external shading? Shading should apply to solar exposed (E/S/W) glazing. It may include shading devices, balconies above, facade articulation etc. See guidance on "full" and "part". Scoring depends on glazing proportions as per **#6**	>65%	6	3	2
	>50%	4	2	
	>35%	2	1	

		Openings compared to Part F purge rates			
		= Part F	+50%	+100%	
#14 Do windows & openings support effective ventilation? Larger, effective and secure openings will help dissipate heat - see guidance	Single-aspect	minimum required	3	4	0
	Dual aspect		2	3	

TOTAL SCORE 23 = Sum of contributing factors: 28 *minus* Sum of mitigating factors: 5

High 12 Medium 8 Low

score >12: Incorporate design changes to reduce risk factors and increase mitigation factors AND Carry out a detailed assessment (e.g. dynamic modelling against CIBSE TM59)

score between 8 and 12: Seek design changes to reduce risk factors and/or increase mitigation factors AND Carry out a detailed assessment (e.g. dynamic modelling against CIBSE TM59)

score <8: Ensure the mitigating measures are retained, and that risk factors do not increase (e.g. in planning conditions)

Figure 31: Good Homes Alliance Early Stage Overheating Risk Tool

11.3 IES Modelling

A Full IES model has been constructed for the project. The modelling approach followed CIBSE AM11 guidelines. The model reflects the latest received architectural plans and layouts.

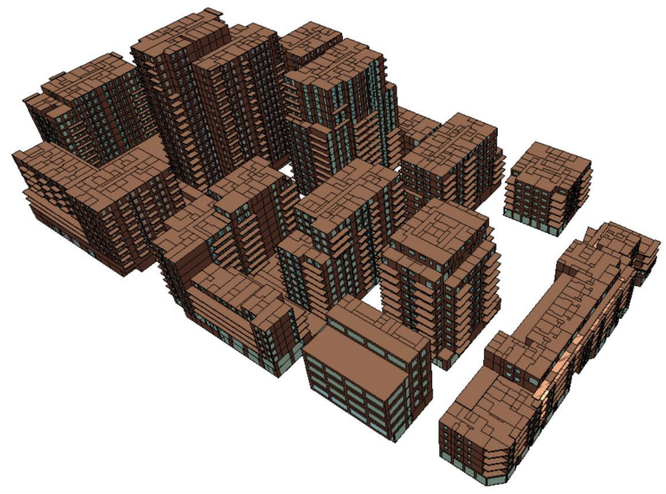


Figure 32: IES Model -Aylesham Centre

The thermal templates reflect the design criteria for each space that follows CIBSE Guide A- 2019 and CIBSE AM11 guidelines.

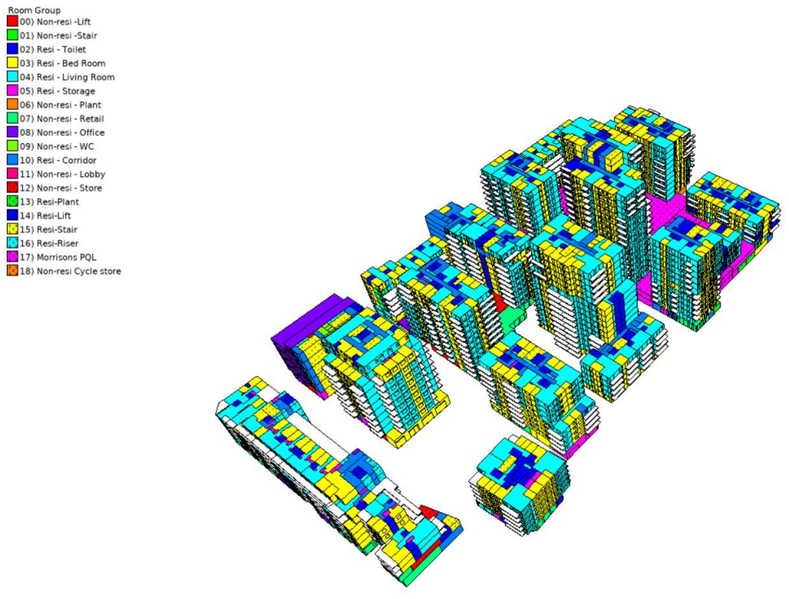


Figure 33: Thermal Templates

11.4 Basis of Design

11.4.1 Residential units

The below table summarises the design parameters for the dwellings used in the assessment. For each system and element, a note has been added to show how each element has been modelled and whether it has been adopted in the design as proposed.

Element or System	Value
External walls including semi exposed walls	U = 0.15 W/m²K
Partition walls between Lift Shafts (Untreated) and Dwellings	U-Value = 0.2-0.25 W/m²K [1]
Partition walls between services risers (Untreated) and Dwellings	U-Value = 0.2-0.23 W/m²K [1]
Party walls [2]	-
Ground Floors	U = 0.11 W/m²K
Roofs	U = 0.11 W/m²K
Windows and glazed doors with >60% glazed area	U = 1.3 W/m²K
	Frame factor = 0.7
	Light transmittance = 0.70
	G-Value = 0.4
Thermal mass	Same as actual dwelling
Allowance for thermal bridging	At the current design stage Default value of adopted as basis of assessment. For later stages when more details available for the envelope structures, thermal bridging shall be calculated to have the actual thermal bridging effect for the building with aim to reach the thermal bridging values for different assemblies included in SAP 10.2
Air permeability [3]	3 m³/h·m² at 50 Pa
Main heating fuel (space and water)	Electrical
Mechanically ventilated zones	Heat Recovery 75 % (Plate heat exchanger)
	Max SFP 1.5 W/l/s
Heating system controls	1. For a single storey dwelling in which the living area is greater than 70% of total floor area, programmer, and room thermostat. 2. For any other dwelling, time, and temperature zone control, TRVs; And in all cases: Boiler interlock ErP Class V
Water use limited to 125 liters per person per day	Yes
Low energy light fittings	Fixed lighting capacity (lm) = 185 x TFA Efficacy of all fixed lighting = 100 lm/W
PV System	As designed

*Glazing g-value of less than or equal 0.4 is crucial to limit the requirements of overheating risk mitigation.

Table 20:Proposed Design performance for dwellings

11.5 Microclimate

11.5.1 Current Weather file – DYS1

The current weather file is set as London DSY-1. The below charts show the Dry-Bulb and Wet-bulb temperature variation for London DSY -1 weather file with peak dry-bulb temperature of 33.6 °C.

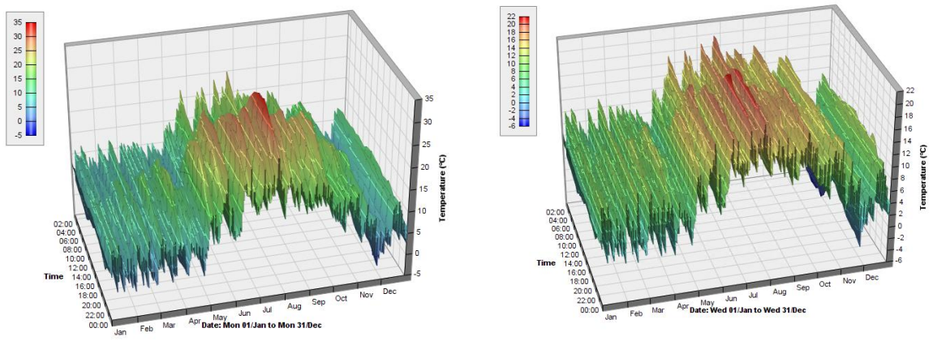


Figure 34: London DSY 2020 High dry-bulb and wet bulb temperatures profile.

The number of hours per year where the temperature higher than 26 °C is 179 hours.

Dry-bulb temperature (°C) - hours in range
> 26.00
179

Table 21: Temperature ranges London DSY weather file

11.5.2 Current Weather file – DYS2

The current weather file is set as London DSY-2. The below charts show the Dry-Bub and Wet-bulb temperature variation for London DSY -2 weather file with peak dry-bulb temperature of 37.3°C.The development is compliant with DSY2 with marginal deviations from DSY3.

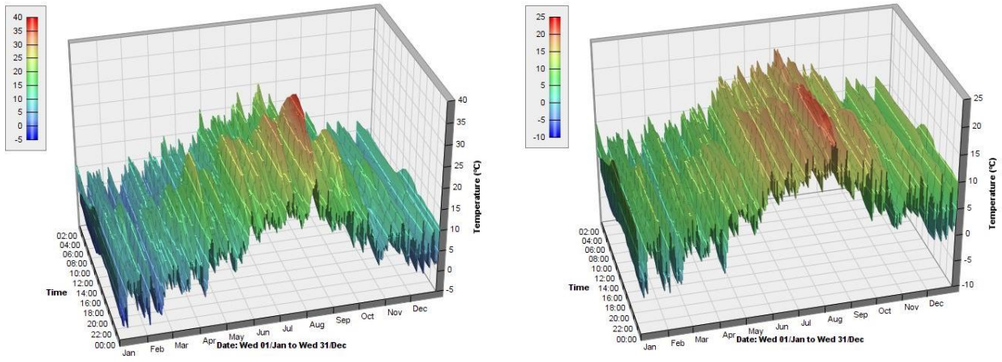


Figure 35: London DSY 2020 High dry-bulb and wet bulb temperatures profile.

The number of hours per year where the temperature higher than 26 °C is 180 hours.

Dry-bulb temperature (°C) - hours in range
> 26.00
180

Table 22: Temperature ranges London DSY weather file

11.5.3 Current Weather file – DYS3

The current weather file is set as London DSY-3. The below charts show the Dry-Bub and Wet-bulb temperature variation for London DSY-3 weather file with peak dry-bulb temperature of 34 °C. The development is compliant with DSY2 with marginal deviations from DSY3.

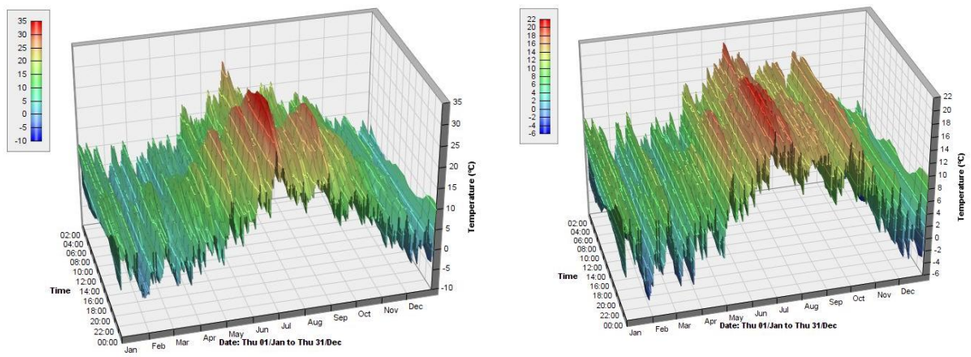


Figure 36: London DSY 2020 High dry-bulb and wet bulb temperatures profile.

The number of hours per year where the temperature higher than 26 °C is 259 hours.

Dry-bulb temperature (°C) - hours in range
> 26.00
259

Table 23: Temperature ranges London DSY weather file

11.5.4 Future weather files

Generally, there is an inherent uncertainty with respect to future climate conditions, there is no way to know which of the files will most closely match actual climate conditions during the specified period so a risk management approach to cooling, overheating, and heating system design is appropriate. In most cases, this will entail making use of more than one set of files. The uncertainty has three main sources. The first is that there is no way of knowing what future emissions of Greenhouse gases (GHG) will be. Second is the variation of the climatic prediction models and the unexpected factors that can arise in the future changing the models' predictions.

As a result of natural variability, there would be a substantial range in possible future climate conditions even if we knew precisely what future emissions would be and if we had a perfect model of the climate. This is the reason that we use multiple projections from multiple climate models, referred to as a multimodal ensemble, to explore the range of future possibilities.

The choice of future time period should be based on the design life of the building in question. For buildings with a design life of 25 years or less, obtaining a set of files for the time period closest to the end of that interval is recommended. For buildings with a design life greater than 25 years, obtaining a set of files for the time period closest to the end of that interval for low and high conditions recommended, since the difference between projections for the two becomes increasingly greater over time.

For overheating systems, running simulations at DSY high future weather file provide insight into system performance for both midpoint and upper tail warming based on the higher future emissions it assumes.

Future weather file is set as London DSY 2050 High for summer.

The below charts show the Dry-Bub and Wet-bulb temperature variation for London DSY 2050 high weather file with peak dry-bulb temperature of 37.3 °C.

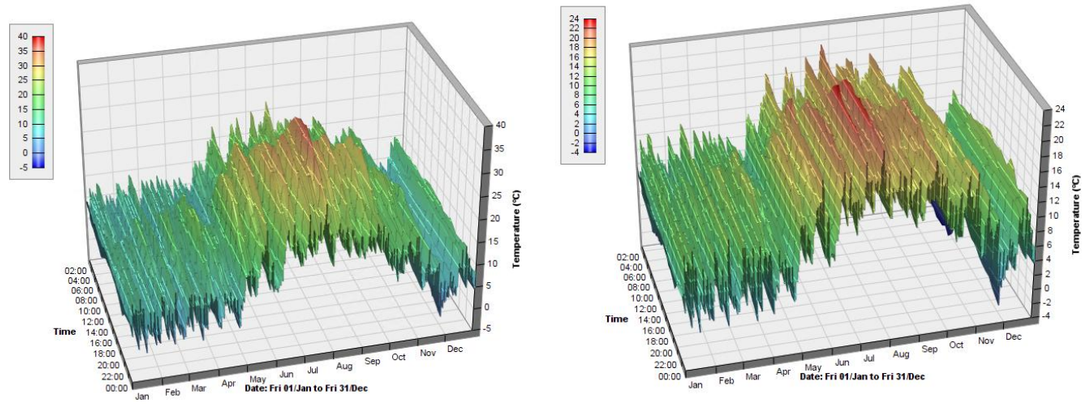


Figure 37: London DSY 2050 High dry-bulb and wet bulb temperatures profile.

11.6 Solar Exposure analysis

A solar analysis has been conducted to identify the locations where the façade solar exposure has the dominant effect annually. This establishes the design cases where the MVHR capacities are expected to be the highest.

The annual incident solar radiation on Horizontal surface is 1070 kWh/m^2/year.

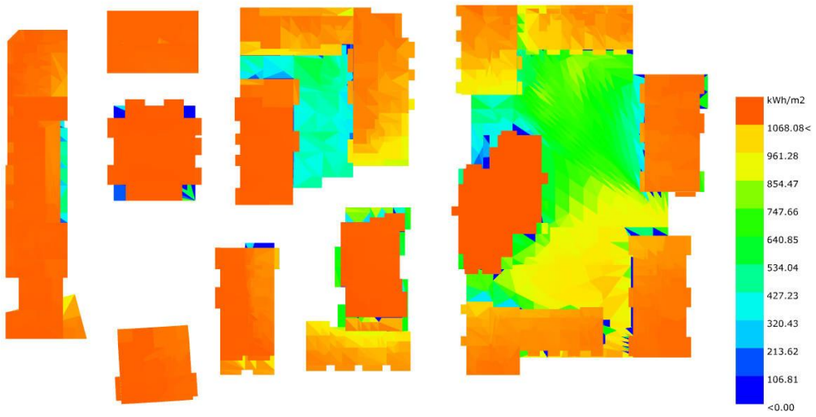


Figure 38: Solar Exposure Top View

The below figure shows the Eastern façade solar exposure with annual incident solar energy of 650 KWh/m^2. The Bedrooms glazing has a medium risk of overheating with low g-value glazing will assist in reducing the overheating risks.

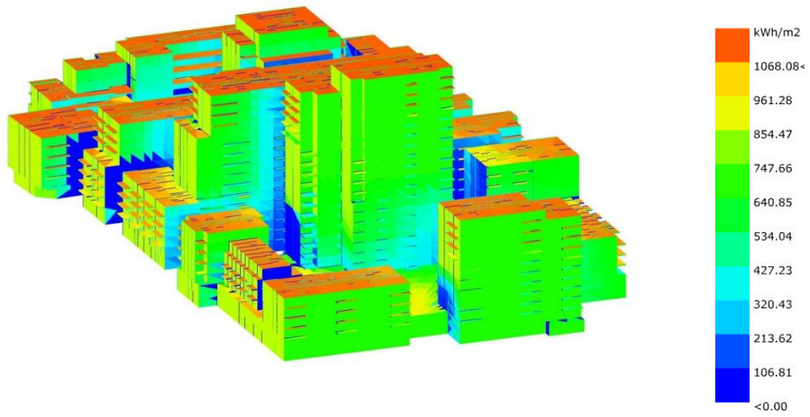


Figure 39: Eastern facade solar Exposure (KWh/m^2)

The southern façade is exposed to annual solar radiation of 840 kWh/m^2 making the rooms on this façade subject to high overheating risks low g-value glazing or external shading structure including the balcony's shading effect is crucial to reduce the requirements of the heat removal to overcome overheating risks.

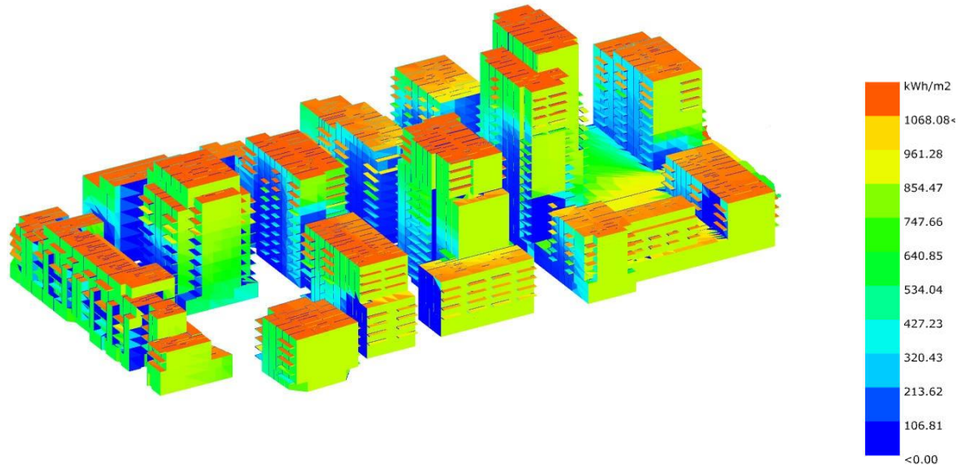


Figure 40: Southern facade solar Exposure (Hours)

The northern façade has low annual solar exposure of 330 KWh/m^2. G-value can be relaxed for this façade.

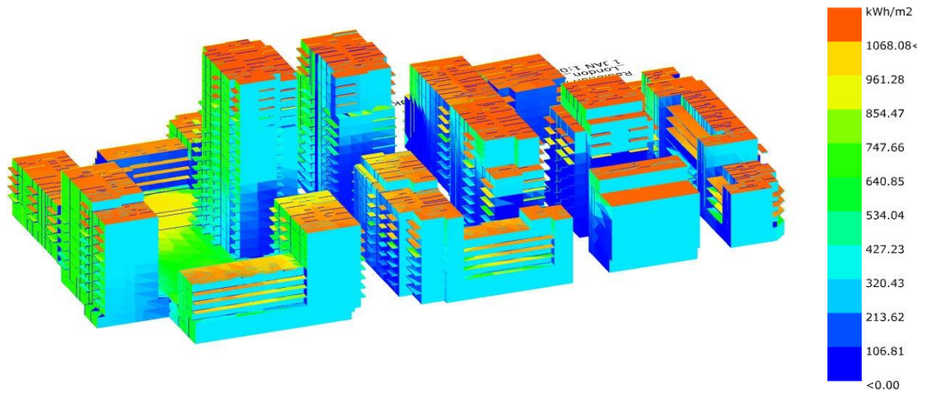


Figure 41: Northern facade solar Exposure (KWh/m^2)

The western façade is partially shades by the adjacent developments where overheating risks are expected to be less for the lower half of the building. While the floors within the upper half with experience the same annual solar exposure as eastern façade with similar overheating risks.

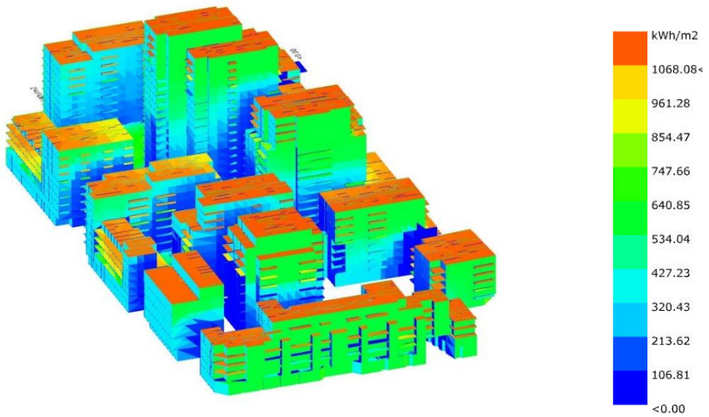


Figure 42: Western facade solar Exposure (KWh/m²)

11.7 Wind Analysis

Wind Analysis has been conducted to assess the buildings that will benefit the most from consistent flow of natural ventilation. The below figures show the wind rose for Aylesham Centre development.

The annual prevalent wind direction is Southwest with average wind speed of 3 m/s. The Summer season shows the same pattern with average wind speed of 2.82 m/s.

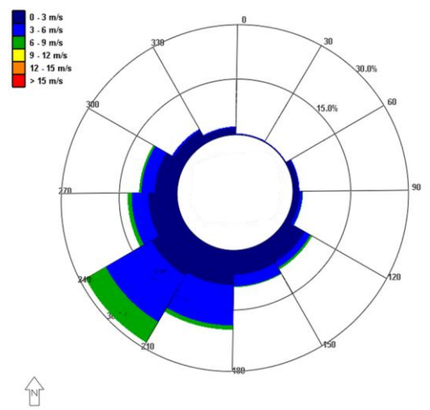


Figure 43: Winter Wind Rose

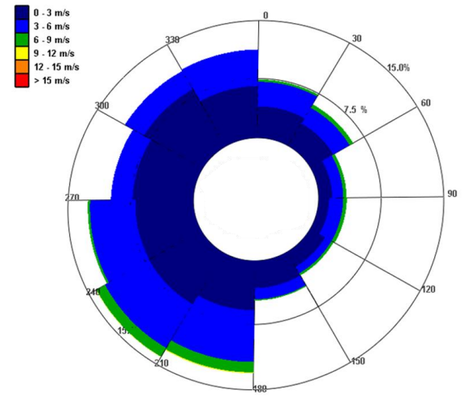


Figure 44: Summer Wind rose

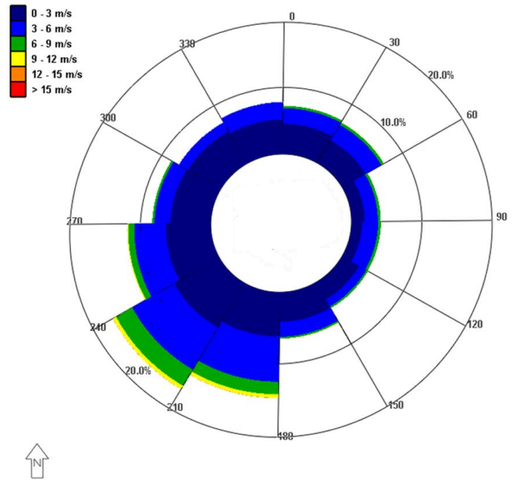


Figure 45: Annual Wind rose.

The figure below shows the wind pattern around the buildings at prevalent wind direction and speed. In a worst-case scenario, buildings upstream will have lower wind velocities, resulting in less potential for effective natural ventilation in buildings downstream (crossflow facades). The Southwestern façade will have higher rates of natural ventilation.

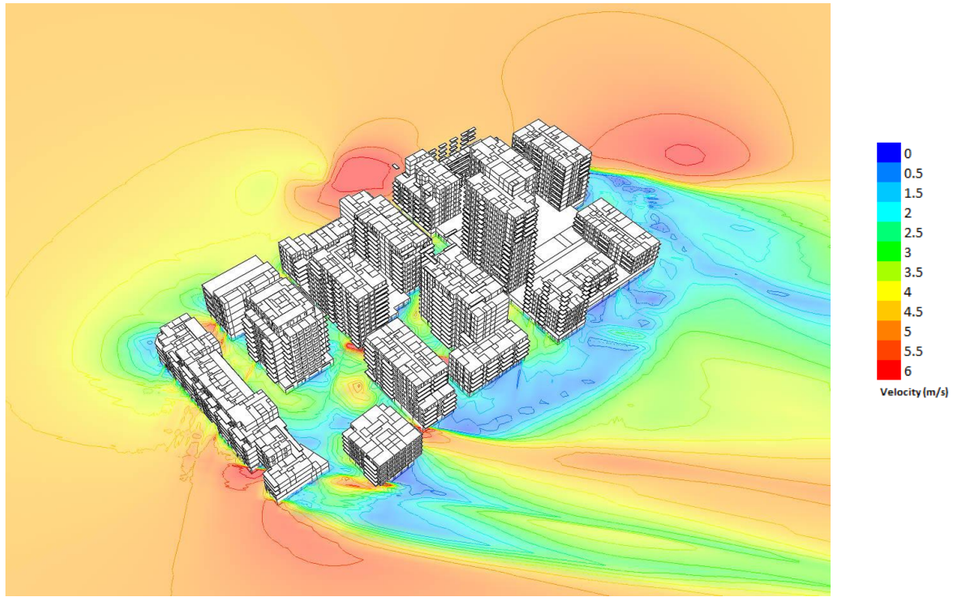


Figure 46: Air velocity contours at 2.5 m above Ground floor level.

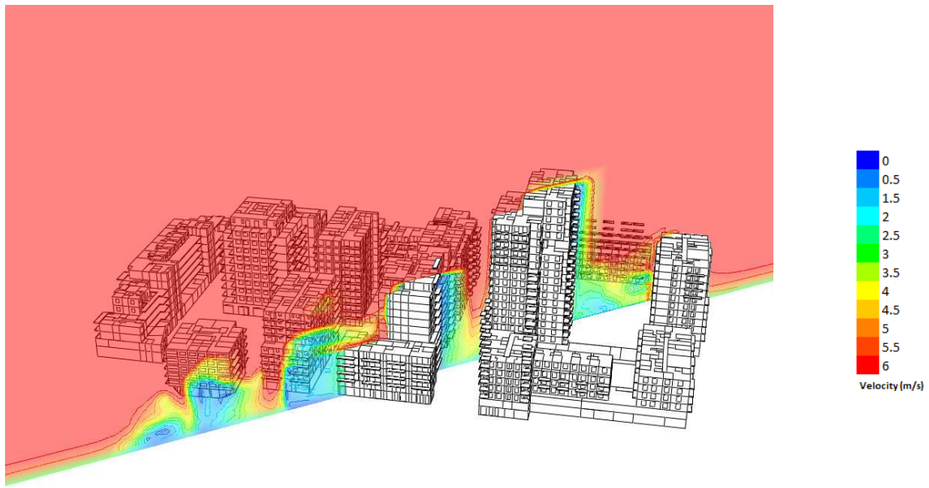


Figure 47: Wind Flow Vertical Section-Block M

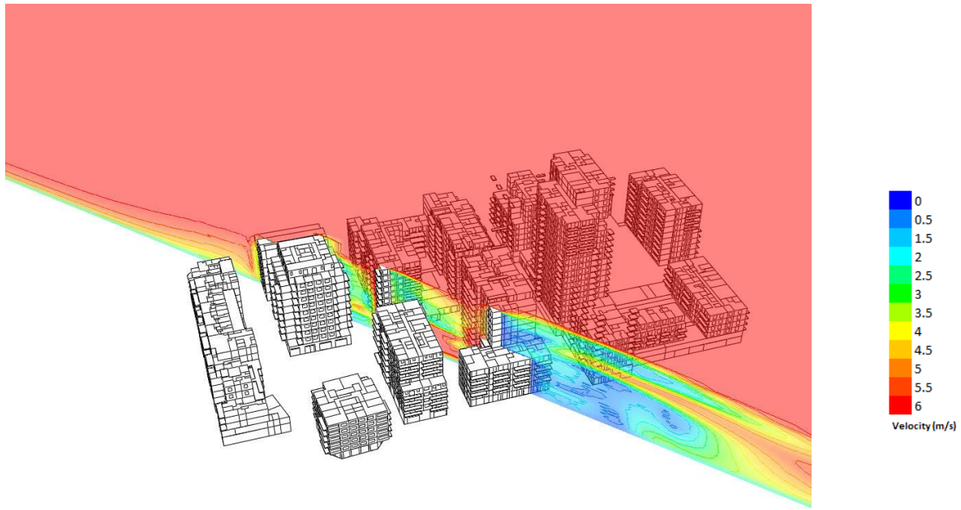


Figure 48: Wind Flow Vertical section- Block E

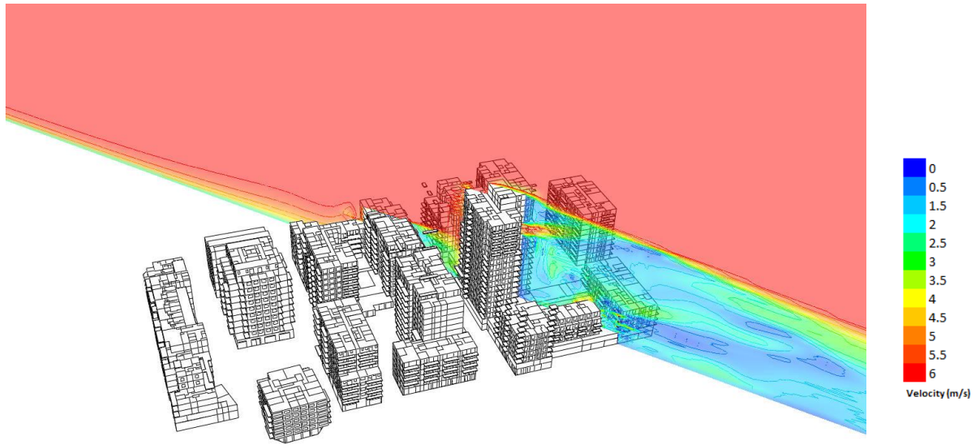


Figure 49: Wind Flow Vertical Section-Block N

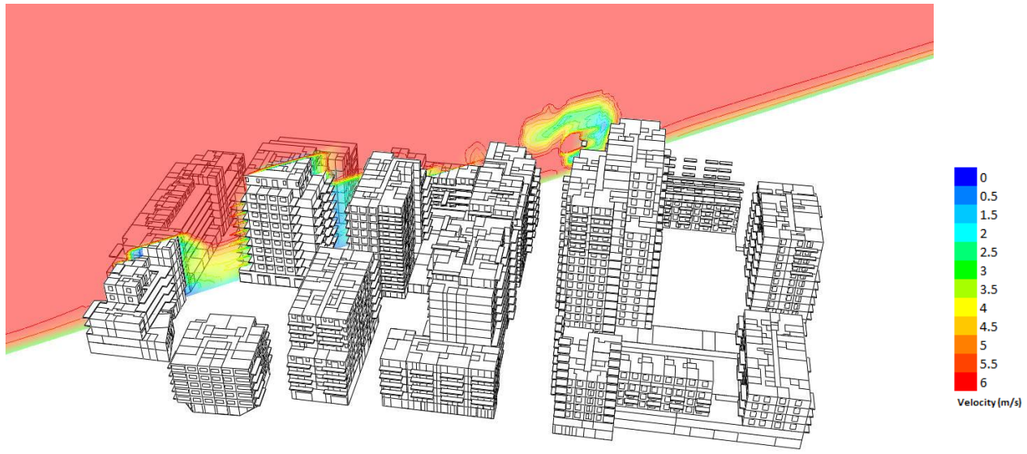


Figure 50: Wind Flow Vertical Section-Block ABC

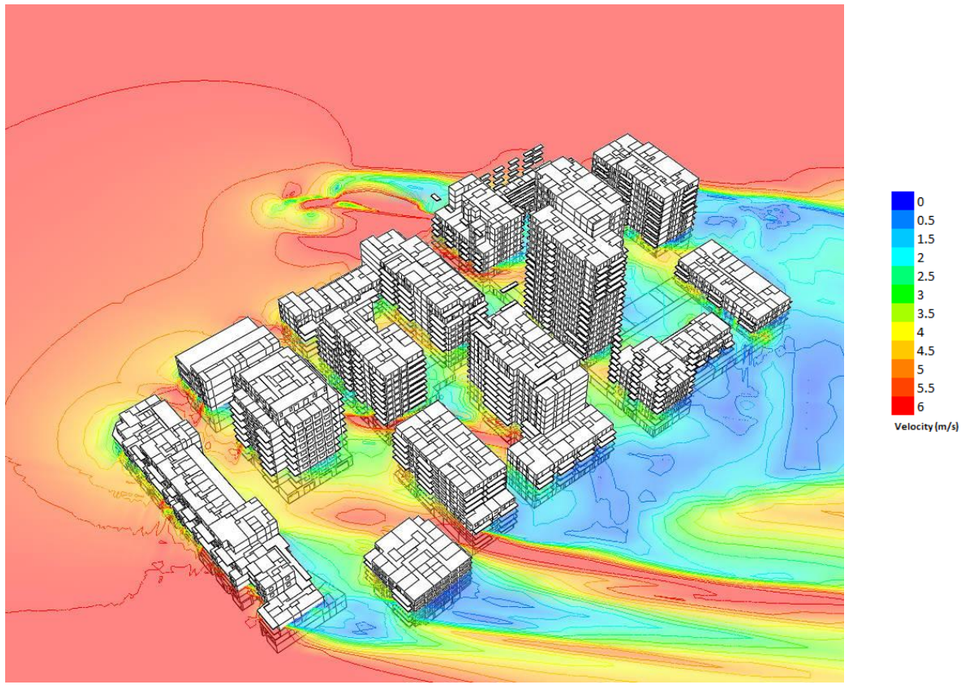


Figure 51: Wind Flow at 11.5 m from ground.

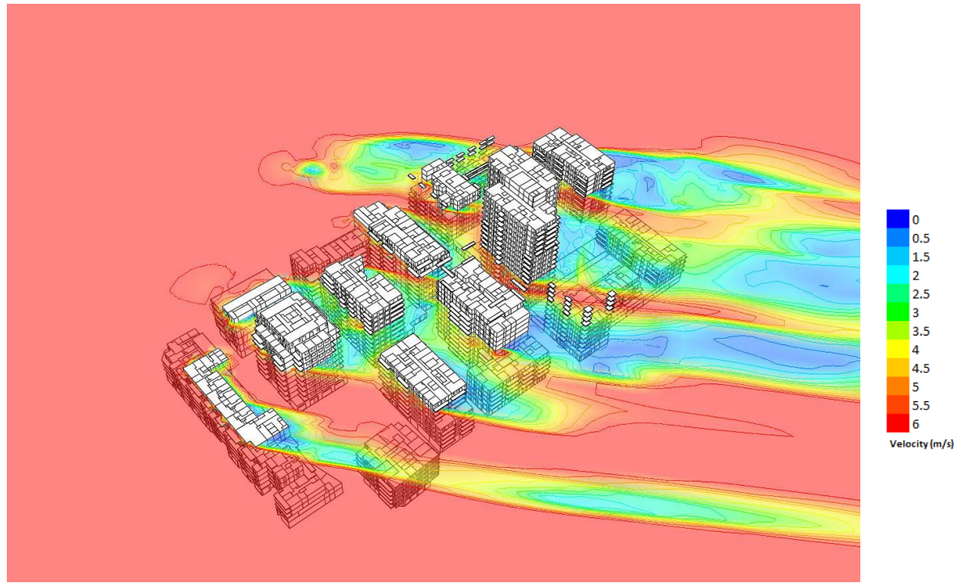


Figure 52: Wind Flow at 25 from ground.

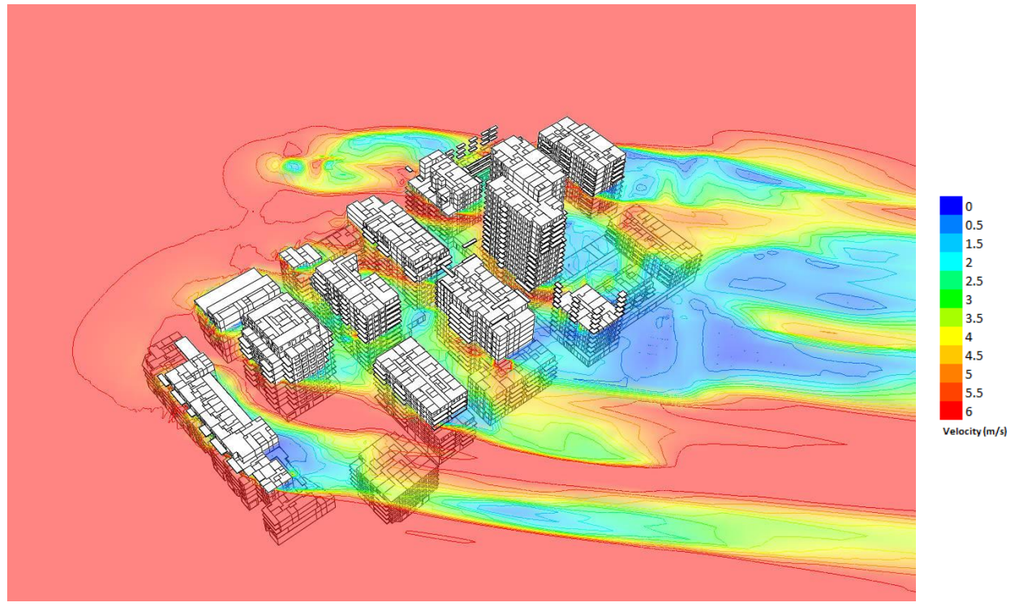


Figure 53: Wind Flow at 20.2 m from ground.

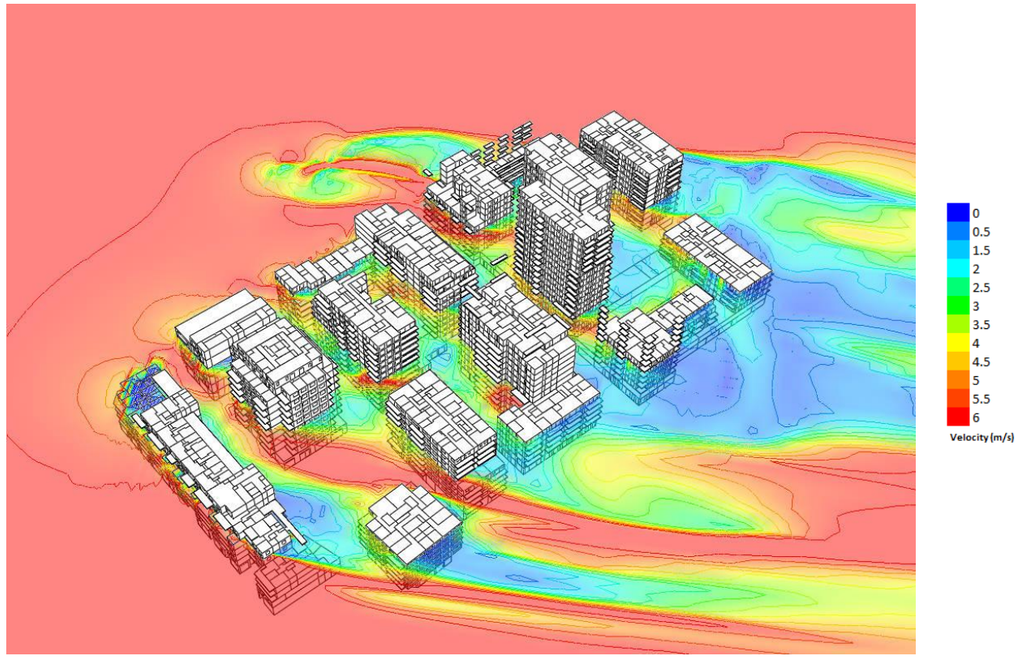


Figure 54: Wind Flow at 17.5 m from ground.

11.8 Window opening Case scenarios

The Windows effective opening area depends on the window type:

1- Hinged Window
2- Sliding (Upward -Side Ward)

The required opening width for sliding windows is straight forward as it directly equals to the linear length of the window opening. For Hinged windows, the effective area of the window opening relies on the angle of window opening, the below figure shows the received architectural concept for the windows dimensions.

Approved Document Part O, Appendix D includes a geometrical methodology to calculate the equivalent free area for hinged (Pivoted) windows noting that for Centre pivot windows, each of the two sections of the centrally hinged window should be assessed as a single side, bottom, or top hung window.

the below figures show curves that describes the relation between the angle of window opening and the effective window opening as extracted from part of data for the design window dimensions.

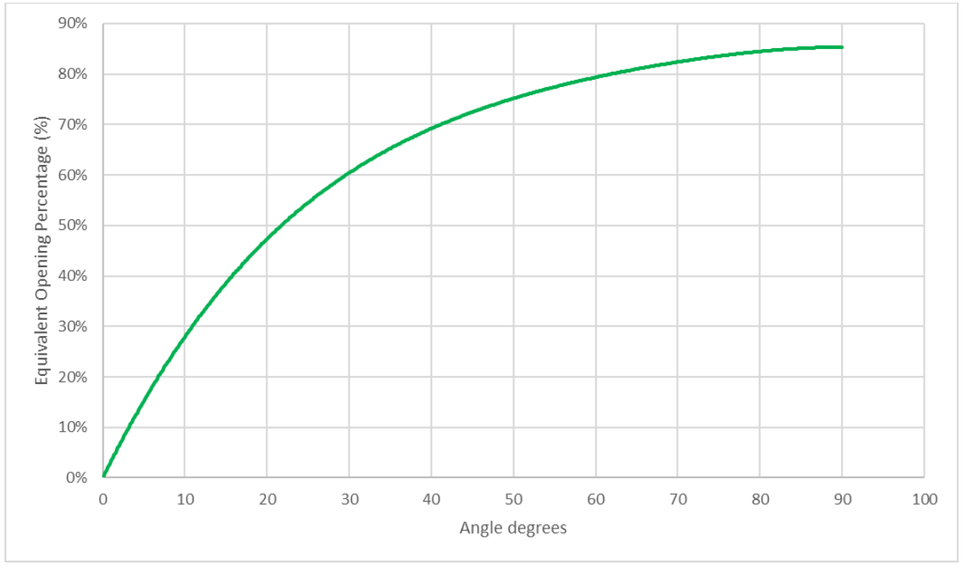


Figure 55: Opening angle and effective open area.

The modelling of the openable area in the IES is based on the effective open area as shown in the below figure. This is because the prevailing wind direction will have dominant influence on the natural ventilation efficiency through the windows. Thus, the efficiency of the natural ventilation will depend on the direction of the window opening.

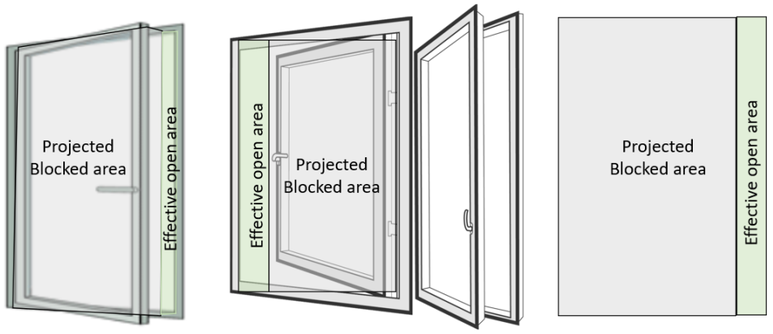


Figure 56: Effective Open area.

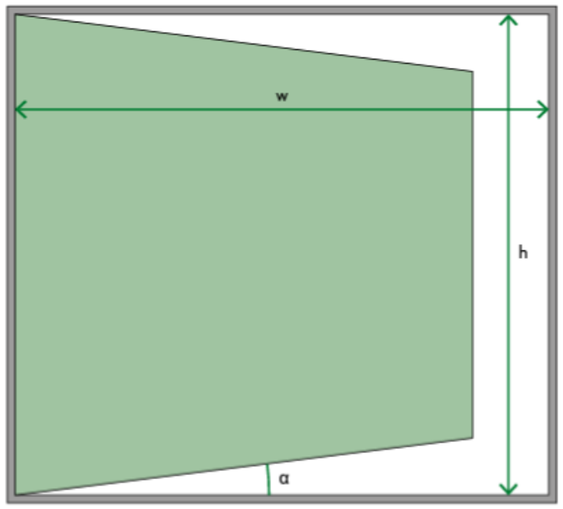


Figure 57: Window Opening dimensions.

At these angles, the natural ventilation assists through mixed ventilation model (Mechanical (MVHR) and Natural) to avoid overheating inside the apartments while effectively reducing the required maximum MVHR capacity to 1.5 Air change at current weather file as will be shown in the results section.

The MVHR cooling effect lies on the heat exchange between the hot outdoor air and the relatively cooler indoor air, resulting in 3 °C reduction in the ventilation air temperature as shown in figure 6. For future weather files, the limited window opening assists increasing the ventilation inside the spaces decreasing heat accumulation without compromising the MVHR cooling effect as will be discussed in the results section.

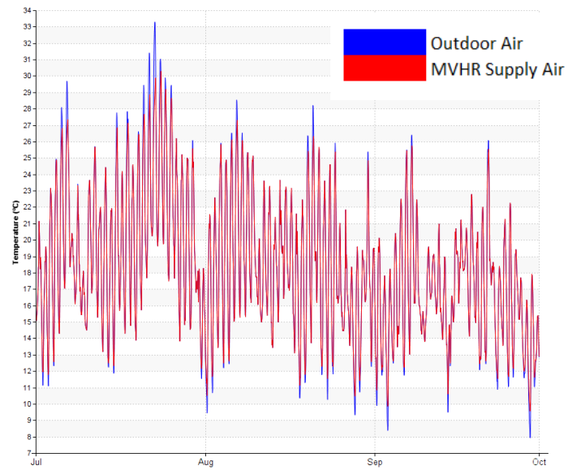


Figure 58: MVHR Cooling effect.

11.9 Acoustic Considerations

According to "29263-PTM2-Rev0-KFD Detailed Overheating and Noise - Part O" Project Technical Memorandum Aylesham centre development detailed overheating and noise – Part O – Residential Design Guide (AVO) with respect to the proposed development issued by Hann Tucker associates, high noise risks façades have been identified for Aylesham Centre as shown in the below extracts.



Façade Zones – Detailed ADO Assessment

Façade Zone	Predicted Maximum Acoustic Open Area of Bedroom Window (m^2)
Zone A (Purple)	0.010
Zone B (Red)	0.010
Zone C (Orange)	0.095
Zone D (Green)	0.460

Figure 59: Project Technical Memorandum (AVO) with respect to the proposed development issued by Hann Tucker Associates-North facades.

The dynamic simulation indicates that in units with unrestricted or minimally restricted window openings, natural ventilation will mitigate overheating for most of the year. However, in scenarios with low wind speeds or wind directions that do not facilitate adequate airflow through the windows due to their location, MVHR will provide the necessary additional mitigation. This ensures that the units remain cool in most wind flow scenarios and are adaptable to heatwaves and climate change.

For units with restricted window openings due to acoustic concerns, natural ventilation is not an effective method for mitigating heat. According to the analysis, a mechanical system utilizing MVHR will be required to reduce the risk of overheating.

Figure 53 highlights apartments that should have an MVHR capacity of 2.5 ACH and those that can have a reduced MVHR capacity of 1.5 ACH with an openable window area of 0.46 m².



Figure 60 Apartments MVHR capacities

11.10 MVHR Selection

The following provides a high-level selection of MVHR units, as requested by the GLA, to verify that the required flow rates for each flat can be achieved using commercially available residential MVHR systems. At the concept stage, MVHR sizes have been coordinated with the Architect, including expected duct sizes, and this has been confirmed at the current Stage 2. During the Schematic and Detailed Design stages, further refinements will be made, with final selections expected by the end of Stage 4.

A total of 76% flats will require MVHR units with a maximum capacity of 120 l/s, while only 24% will need higher capacities. In the next design phase, apartments requiring MVHR capacities greater than 120 l/s—typically those with three or more bedrooms—can be served by either a single large unit or two smaller units. The final configuration will be determined during the schematic design stage.

The MVHR units will operate in three modes: normal ventilation, boost ventilation, and maximum mode for overheating conditions. Occupants will have the ability to set the MVHR parameters based on different ambient conditions, with controls to activate the maximum overheating flowrate on warm or hot days. This will help minimize heat accumulation, enhance air circulation within the apartment, and mitigate overheating risks.

MVHR SELECTIONS							
Block	**Flat Type**		**Qty**	**Max Area without toilets (m2)**	**MVHR capacity**	**Maximum Flowrate at highest speed (l/s)**	**MVHR Selection Type**
ABC	B	1B2P	16	50	2.5	93.75	Nuaire 95 l/s
	D	2B4P	39	64	2.5	120	Nuaire 120 l/s
	E	3B5P	10	85	2.5	159.375	FlaktGroup EIS 230
E	A	1B1P	16	35	1.5	39.375	Nuaire 40 l/s
	B	1B2P	40	50	1.5	56.25	Nuaire 60 l/s
	D	2B4P	20	58	1.5	65.25	Nuaire 70 l/s
	E	3B5P	2	75	1.5	84.375	Nuaire 85 l/s

	F	3B6P	1	100	1.5	112.5	Nuaire 115 l/s
F	E	3B5P	20	78	2.5	146.25	FlaktGroup EIS 230
G	A	1B1P	11	35	1.5	39.375	Nuaire 40 l/s
	B	1B2P	23	45	1.5	50.625	Nuaire 60 l/s
	D	2B4P	23	65	1.5	73.125	Nuaire 75 l/s
	F	3B6P	14	95	1.5	106.875	Nuaire 110 l/s
H	C	2B3P	4	53	2.5	99.375	Nuaire 100 l/s
	D	2B4P	31	62	2.5	116.25	Nuaire 120 l/s
	E	3B5P	7	64	2.5	120	Nuaire 120 l/s
	F	3B6P	1	80	2.5	150	FlaktGroup EIS 230
J1J2	A	1B1P	16	40	2.5	75	Nuaire 75 l/s
	B	1B2P	36	50	2.5	93.75	Nuaire 95 l/s
	C	2B3P	20	60	2.5	112.5	Nuaire 115 l/s
	D	2B4P	34	64	2.5	120	Nuaire 120 l/s
	F	3B6P	23	90	2.5	168.75	FlaktGroup EIS 230
	G	2B3P Duplex L00		48	2.5	90	Nuaire 90 l/s
		2B3P Duplex L01		35	2.5	65.625	Nuaire 70 l/s
	H	2B4P Duplex L00		45	2.5	84.375	Nuaire 85 l/s
		2B4P Duplex L01		40	2.5	75	Nuaire 75 l/s
	I	3B5P Duplex L00		55	2.5	103.125	Nuaire 105 l/s
		3B5P Duplex L01		50	2.5	93.75	Nuaire 95 l/s
	J	3B6P Duplex L00		55	2.5	103.125	Nuaire 105 l/s
		3B6P Duplex L01		64	2.5	120	Nuaire 120 l/s
	K	ACC 1B1P		64	2.5	120	Nuaire 120 l/s
K	A	1B1P	8	35	2.5	65.625	Nuaire 70 l/s
	B	1B2P	36	55	2.5	103.125	Nuaire 105 l/s
	C	2B3P	8	60	2.5	112.5	Nuaire 115 l/s
	D	2B4P	15	64	2.5	120	Nuaire 120 l/s
	E	3B5P	2	85	2.5	159.375	FlaktGroup EIS 230
	F	3B6P	16	90	2.5	168.75	FlaktGroup EIS 230
	G	2B3P Duplex L00		40	2.5	75	Nuaire 75 l/s
		2B3P Duplex L01		45	2.5	84.375	Nuaire 85 l/s
	H	2B4P Duplex L00		40	2.5	75	Nuaire 75 l/s
		2B4P Duplex L01		45	2.5	84.375	Nuaire 85 l/s
	I	3B5P Duplex L00		55	2.5	103.125	Nuaire 105 l/s
		3B5P Duplex L01		55	2.5	103.125	Nuaire 105 l/s
	J	3B6P Duplex L00		60	2.5	112.5	Nuaire 115 l/s
		3B6P Duplex L01		55	2.5	103.125	Nuaire 105 l/s
	L	ACC 2B4P		85	2.5	159.375	FlaktGroup EIS 230
L	A	1B1P	30	35	2.5	65.625	Nuaire 70 l/s
	C	2B3P	4	60	2.5	112.5	Nuaire 115 l/s
	D	2B4P	42	60	2.5	112.5	Nuaire 115 l/s
	E	3B5P	2	80	2.5	150	FlaktGroup EIS 230
	F	3B6P	7	90	2.5	168.75	FlaktGroup EIS 230
M	A	1B1P	15	35	2.5	65.625	Nuaire 70 l/s
	B	1B2P	33	50	2.5	93.75	Nuaire 95 l/s
	C	2B3P	27	55	2.5	103.125	Nuaire 105 l/s
	D	2B4P	35	64	2.5	120	Nuaire 120 l/s
	E	3B5P		75	2.5	140.625	FlaktGroup EIS 230
	F	3B6P	39	95	2.5	178.125	FlaktGroup EIS 230
N	A	1B1P	6	35	2.5	65.625	Nuaire 70 l/s
	B	1B2P	53	45	2.5	84.375	Nuaire 85 l/s
	C	2B3P		55	2.5	103.125	Nuaire 105 l/s
	D	2B4P	5	75	2.5	140.625	FlaktGroup EIS 230
	E	3B5P		80	2.5	150	FlaktGroup EIS 230
P	E	3B5P	33	85	2.5	159.375	FlaktGroup EIS 230
	M	4B6P	17	105	2.5	196.875	FlaktGroup EIS 230
	L	ACC 2B4P		85	2.5	159.375	FlaktGroup EIS 230
Q	B	1B2P	4	45	2.5	84.375	Nuaire 85 l/s
	D	2B4P	21	60	2.5	112.5	Nuaire 115 l/s
	F	3B6P	2	75	2.5	140.625	FlaktGroup EIS 230

Refer to Appendix for the selected MVHR datasheets.

11.11 TM59 Overheating analysis Results

a. Natural Ventilation

Compliance for predominately naturally ventilated spaces is based on passing both of the following two criteria:

a) For living rooms, kitchens, and bedrooms: the number of hours during which ΔT is greater than or equal to one degree (K) during the period May to September inclusive shall not be more than 3 per cent of occupied hours. (CIBSE TM52 Criterion 1: Hours of exceedance).
b) For bedrooms only: to guarantee comfort during the sleeping hours the operative temperature in the g bedroom from 10 pm to 7 am shall not exceed 26 °C for more than 1% of annual hours. (Note: 1% of the annual hours between 22:00 and 07:00 for bedrooms is 32 hours, so 33 or more hours above 26 °C will be recorded as a failure).

The Dynamic simulation shows that all spaces for all buildings fails CIBSE TM 59 Criteria for naturally ventilated spaces for the current weather file based on the restriction of window opening as noted in the acoustic consideration section.

b. Current Weather file

i. Mixed Mode Ventilation (Mechanical + Natural)

The results show MVHR 1.5 ACH (Overheating Mode) + 0.46 m^2 openable window for all floors where windows are allowed to open, will comply with TM 59 Criteria. The below table shows the average frequency of opening the windows per façade which is reported as the annual occupied hours per TM59.

Orientation	Average number of hours when windows required to open for overheating mitigation
North	70 hrs*
East	110 hrs
West	110 hrs
South	210 hrs

Table 24: Average number of hours when windows required to open for overheating mitigation.

*No. of Hours at night-time for Bedrooms needed for overheating mitigation.

For detailed results please refer to Appendix G

ii. Mechanical ventilation- MVHR 2.5 ACH (Overheating Mode) + closed window

For spaces where windows are not suitable to be opened for acoustic considerations, The results shows that all MVHR with 2.5 ACH (Overheating mode) is adequate to comply with TM 59 Criteria.

For detailed results please refer to Appendix G.

iii. Future Weather file

For future weather files and potential heatwaves based on London CIBSE DSY2, DSY3 and DSY2050 high weather files (25 Years), the results show that the current strategy results in compliance for DSY2 with limited instances of marginal non-compliance in DSY3 and marginal non-compliance for some of the apartments in the future weather file scenario. Noting that it is not mandatory to comply with future weather files cases, however, it is worth to study as part of potential future proofing option of the development.

For detailed results please refer to Appendix G.

iv. Communal Corridors

The inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. The overheating test for corridors should be based on the number of annual hours for which an operative temperature of 28 °C is exceeded. If an operative temperature of 28 °C is exceeded for more than 3% of the total annual hours, then this should be identified as a significant risk within the report.

Based on the current stage level of details the proposed corridors in all buildings have low risk of overheating complying with TM59 criteria. This is to be further verified as more details regarding heating pipes routing and insulation become available.

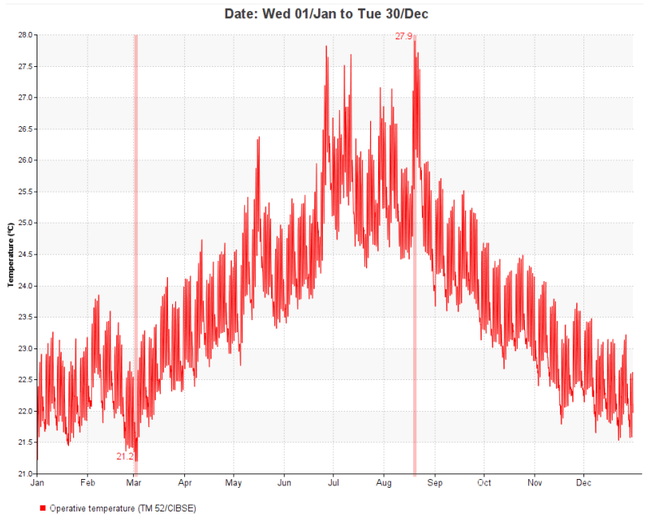


Figure 61: Corridors Operative temperature.

11.12 Future minimising future dwelling overheating risk

As part of the handover pack, occupants will receive guidance on minimizing future overheating risks in their dwelling. This guidance will help residents mitigate overheating during heat waves and future rising temperatures by following these recommendations that have been defined based on the cooling hierarchy:

1. **Minimizing Internal Heat Gains**
    - Avoid prolonged use of heat-generating appliances such as ovens and stoves. Instead, opt for meals that require minimal cooking on particularly hot days.
2. **Managing Sunlight and Heat Exposure**
    - Use internal blinds to reduce heat gain, especially when the property is unoccupied during midday hours.
    - While blinds help in blocking solar heat, it is advisable to balance their use with reducing artificial lighting to maintain an optimal indoor environment.
3. **Passive Ventilation Strategies**
    - For apartments where window opening is convenient , maximize natural ventilation by fully opening windows.
    - In cases where external noise is a concern, occupants may still choose to open windows as needed. However, for apartments where noise levels are intolerable for the occupants , the mechanical ventilation system has been designed with a higher capacity to allow sufficient airflow while keeping windows closed.
4. **Optimizing Mechanical Ventilation operation (MVHR)**
    - Operate the MVHR system at its maximum overheating mode (highest airflow rate) for an extended period before noon to prevent excessive heat buildup during peak temperature hours.
    - During prolonged heat waves, keep the MVHR running at higher speeds, particularly at night, to take advantage of cooler nighttime temperatures and improve indoor air circulation for better thermal comfort.

This guidance will be continuously reviewed during the next design phases, ensuring that the final handover documentation provides comprehensive details on system operation and best practices for maintaining indoor comfort.

12 Conclusion

The energy strategy proposed for the Aylesham Centre development aligns with the stringent energy policies at national, regional, and local levels. By incorporating high levels of insulation, efficient systems, and renewable energy sources, the development significantly reduces energy demand and carbon emissions, along with provisions for future connections to local heat networks, further underscores the project's commitment to sustainability.

- The energy demand assessment for the residential areas indicates that the carbon-saving measures in the energy strategy achieve an on-site reduction of 65% for the Be Green scenario. Additionally, the energy demand assessment for the non-residential areas shows that the carbon-saving measures outlined in the energy strategy provide an overall on-site reduction of 36.8% for commercial areas and a 36.3% reduction for communal corridors compared to Building Regulations Part L. This exceeds the minimum 35% target for the Be Green scenario.

The Dynamic simulation shows that all spaces for all buildings fails CIBSE TM59 Criteria for naturally ventilated spaces for the current weather file based on the restriction of window opening as noted in the acoustic consideration section.

The Overheating results demonstrate MVHR 1.5 ACH (Overheating Mode) + 0.46 m^2 openable window for all floors where windows are allowed to open, will comply with TM 59 Criteria**.**

For spaces where windows cannot be opened due to acoustic considerations, the overheating results demonstrate that all spaces for all buildings will meet the necessary overheating assessment requirements by installing MVHR systems with a 2.5 ACH (overheating mode). The overheating analysis shows that the current strategy results in compliance for DSY1 for apartments spaces.

Based on the current stage level of details the corridors have low risk of overheating complying with TM 59 criteria. This is to be further verified as more details regarding heating pipes routing and insulation become available.

For future weather files and potential heatwaves based on London CIBSE DSY2, DSY3 and DSY2050 high weather files (25 Years), the overheating analysis shows limited instances of marginal exceedance in DSY 3 and 2 and marginal exceedance for some of the apartments in the future weather fille scenario. Noting that it is not mandatory to comply with future weather files cases, however, it is worth to study as part of potential future proofing option of the development.

APPENDIX A SAPS Compliance Be Lean

12.1 Block ABC

Block Compliance

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Block Reference	Block ABC_27112024 Updates	Issued on Date	29/11/2024
Block Name	Block ABC		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block ABC_27112024 Updates	Block Name: Block ABC			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BA-01-02_Copy_Copy - 00001_Copy_Copy	53.00	14.64	15.86	7.69 %
27 BA-02-02_Copy_Copy - 00001_Copy_Copy	53.00	12.35	14.35	13.94 %
27 BA-03-02_Copy_Copy - 00001_Copy_Copy	53.00	12.35	14.35	13.94 %
27 BA-04-02_Copy_Copy - 00001_Copy_Copy	53.00	12.35	14.35	13.94 %
27 BC-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	11.31	15.40	26.56 %
27 BC-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	9.20	13.88	33.72 %
A 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	11.38	13.58	16.20 %
A 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
A 27 BA-03-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
A 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
A 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	67.00	11.69	15.08	22.48 %
A 27 BC-03-03_Copy_Copy - 00001_Copy_Copy	67.00	9.77	13.57	28.00 %
B 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	11.38	13.58	16.20 %
B 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
B 27 BA-03-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
B 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	9.20	11.98	23.21 %
B 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	50.00	14.52	16.42	11.57 %
B 27 BC-03-03_Copy_Copy - 00001_Copy_Copy	50.00	12.55	14.94	16.00 %
BA-01-01_Copy_Copy - 00001_Copy_Copy	87.00	15.84	15.36	-3.13 %
BA-01-04_Copy_Copy - 00001_Copy_Copy	52.00	13.82	15.19	9.02 %
BA-02-01_Copy_Copy - 00001_Copy_Copy	87.00	13.22	13.86	4.62 %
BA-02-04_Copy_Copy - 00001_Copy_Copy	52.00	11.60	13.56	14.45 %

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BA-03-01_Copy_Copy - 00001_Copy_Copy	87.00	13.22	13.86	4.62 %
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BA-06-04_Copy_Copy - 00001_Copy_Copy	53.00	16.25	16.02	-1.44 %
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BB-01-02_Copy_Copy - 00001_Copy_Copy	74.00	12.28	13.94	11.91 %
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BB-02-02_Copy_Copy - 00001_Copy_Copy	74.00	9.99	12.37	19.24 %
BB-02-03_Copy_Copy - 00001_Copy_Copy	74.00	9.97	12.35	19.27 %
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BB-03-01_Copy_Copy - 00001_Copy_Copy	74.00	12.94	14.33	9.70 %
BB-03-02_Copy_Copy - 00001_Copy_Copy	74.00	9.99	12.37	19.24 %
BB-03-03_Copy_Copy - 00001_Copy_Copy	74.00	9.97	12.35	19.27 %
BB-03-04_Copy_Copy - 00001_Copy_Copy	74.00	10.15	12.54	19.06 %
BB-04-01_Copy_Copy - 00001_Copy_Copy	74.00	12.94	14.33	9.70 %
BB-04-02_Copy_Copy - 00001_Copy_Copy	74.00	9.99	12.37	19.24 %
BB-04-03_Copy_Copy - 00001_Copy_Copy	74.00	9.97	12.35	19.27 %
BB-04-04_Copy_Copy - 00001_Copy_Copy	74.00	10.15	12.54	19.06 %
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BB-05-02_Copy_Copy - 00001_Copy_Copy	69.00	10.29	12.43	17.22 %
BB-05-03_Copy_Copy - 00001_Copy_Copy	69.00	10.29	12.43	17.22 %
BB-05-04_Copy_Copy - 00001_Copy_Copy	69.00	10.29	12.45	17.35 %
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BB-06-02_Copy_Copy - 00001_Copy_Copy	69.00	12.50	13.72	8.89 %

Block Compliance

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BC-04-02_Copy_Copy - 00001_Copy_Copy	86.00	9.72	12.10	19.67 %
BC-04-03_Copy_Copy - 00001_Copy_Copy	80.00	9.06	13.11	30.89 %
BC-05-01_Copy_Copy - 00001_Copy_Copy	62.00	10.61	12.51	15.19 %
BC-05-02_Copy_Copy - 00001_Copy_Copy	63.00	14.51	15.31	5.23 %
BC-05-03_Copy_Copy - 00001_Copy_Copy	86.00	10.48	13.78	23.95 %
BC-06-01_Copy_Copy - 00001_Copy_Copy	62.00	10.61	12.51	15.19 %
Totals:	4490.74	746.87	879.58	
Average DER = 11.39 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 13.46 $kgCO_2/m^2$	15.36 %			

Block Compliance Report - DFEE

Block Reference: Block ABC_27112024 Updates	**Block Name: Block ABC**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
27 BA-01-02_Copy_Copy - 00001_Copy_Copy	53.00	38.50	35.99	-6.98 %
27 BA-02-02_Copy_Copy - 00001_Copy_Copy	53.00	27.79	29.23	4.92 %
27 BA-03-02_Copy_Copy - 00001_Copy_Copy	53.00	27.79	29.23	4.92 %
27 BA-04-02_Copy_Copy - 00001_Copy_Copy	53.00	27.79	29.23	4.92 %
27 BC-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	34.05	43.48	21.68 %
27 BC-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	23.80	36.75	35.25 %
A 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	33.20	31.18	-6.50 %

Block Compliance

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A 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	21.89	24.03	8.91 %
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A 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	21.89	24.03	8.91 %
A 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	67.00	30.10	37.32	19.35 %
A 27 BC-03-03_Copy_Copy - 00001_Copy_Copy	67.00	19.88	30.56	34.94 %
B 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	33.20	31.18	-6.50 %
B 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	21.89	24.03	8.91 %
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B 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	21.89	24.03	8.91 %
B 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	50.00	37.19	37.87	1.82 %
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BA-01-04_Copy_Copy - 00001_Copy_Copy	52.00	33.04	30.85	-7.09 %
BA-02-01_Copy_Copy - 00001_Copy_Copy	87.00	43.58	37.29	-16.86 %
BA-02-04_Copy_Copy - 00001_Copy_Copy	52.00	21.20	23.43	9.53 %
BA-03-01_Copy_Copy - 00001_Copy_Copy	87.00	43.58	37.29	-16.86 %
BA-03-04_Copy_Copy - 00001_Copy_Copy	52.00	21.20	23.43	9.53 %
BA-04-01_Copy_Copy - 00001_Copy_Copy	87.00	41.48	37.29	-11.24 %
BA-04-04_Copy_Copy - 00001_Copy_Copy	52.00	21.20	23.43	9.53 %
BA-05-04_Copy_Copy - 00001_Copy_Copy	53.00	36.93	31.07	-18.83 %
BA-06-04_Copy_Copy - 00001_Copy_Copy	53.00	47.13	36.88	-27.78 %
BB-01-01_Copy_Copy - 00001_Copy_Copy	74.00	38.88	35.81	-8.58 %
BB-01-02_Copy_Copy - 00001_Copy_Copy	74.00	36.77	34.07	-7.92 %
BB-01-03_Copy_Copy - 00001_Copy_Copy	74.00	36.66	33.98	-7.89 %
BB-01-04_Copy_Copy - 00001_Copy_Copy	74.00	37.69	34.83	-8.21 %

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BB-02-01_Copy_Copy - 00001_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-02-02_Copy_Copy - 00001_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-02-03_Copy_Copy - 00001_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-02-04_Copy_Copy - 00001_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-03-01_Copy_Copy - 00001_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-03-02_Copy_Copy - 00001_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-03-03_Copy_Copy - 00001_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-03-04_Copy_Copy - 00001_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-04-01_Copy_Copy - 00001_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-04-02_Copy_Copy - 00001_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-04-03_Copy_Copy - 00001_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-04-04_Copy_Copy - 00001_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-05-01_Copy_Copy - 00001_Copy_Copy	69.87	25.74	27.07	4.92 %
BB-05-02_Copy_Copy - 00001_Copy_Copy	69.00	24.80	26.13	5.09 %
BB-05-03_Copy_Copy - 00001_Copy_Copy	69.00	24.80	26.12	5.05 %
BB-05-04_Copy_Copy - 00001_Copy_Copy	69.00	24.80	26.22	5.41 %
BB-06-01_Copy_Copy - 00001_Copy_Copy	69.87	36.64	32.88	-11.42 %
BB-06-02_Copy_Copy - 00001_Copy_Copy	69.00	35.48	31.83	-11.47 %
BB-06-03_Copy_Copy - 00001_Copy_Copy	69.00	35.48	31.82	-11.51 %
BB-06-04_Copy_Copy - 00001_Copy_Copy	69.00	35.48	31.92	-11.16 %
BC-01-01_Copy_Copy - 00001_Copy_Copy	52.00	33.03	31.31	-5.50 %
BC-01-02_Copy_Copy - 00001_Copy_Copy	86.00	39.29	36.28	-8.30 %
BC-02-01_Copy_Copy - 00001_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-02-02_Copy_Copy - 00001_Copy_Copy	86.00	28.24	29.31	3.65 %
BC-03-01_Copy_Copy - 00001_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-03-02_Copy_Copy - 00001_Copy_Copy	86.00	28.24	29.31	3.65 %

Block Compliance

BC-04-01_Copy_Copy - 00001_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-04-02_Copy_Copy - 00001_Copy_Copy	86.00	28.24	29.31	3.65 %
BC-04-03_Copy_Copy - 00001_Copy_Copy	80.00	22.16	32.73	32.29 %
BC-05-01_Copy_Copy - 00001_Copy_Copy	62.00	23.22	24.05	3.45 %
BC-05-02_Copy_Copy - 00001_Copy_Copy	63.00	42.25	37.18	-13.64 %
BC-05-03_Copy_Copy - 00001_Copy_Copy	86.00	31.58	37.59	15.98 %
BC-06-01_Copy_Copy - 00001_Copy_Copy	62.00	23.22	24.05	3.45 %
Totals:	4490.74	1972.33	1983.13	
Average DFEE = 30.66 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 30.81 kgCO₂/m²	0.49 %			

Block Compliance Report - DPER

Block Reference: Block ABC_27112024 Updates	Block Name: Block ABC			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BA-01-02_Copy_Copy - 00001_Copy_Copy	53.00	86.56	85.59	-1.13 %
27 BA-02-02_Copy_Copy - 00001_Copy_Copy	53.00	74.26	77.45	4.12 %
27 BA-03-02_Copy_Copy - 00001_Copy_Copy	53.00	74.26	77.45	4.12 %
27 BA-04-02_Copy_Copy - 00001_Copy_Copy	53.00	74.26	77.45	4.12 %
27 BC-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	66.94	82.65	19.01 %
27 BC-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	81.70	55.57	74.48	25.39 %
A 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	66.28	73.13	9.37 %
A 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %
A 27 BA-03-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %
A 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %
A 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	67.00	69.69	81.14	14.11 %
A 27 BC-03-03_Copy_Copy - 00001_Copy_Copy	67.00	59.39	72.99	18.63 %
B 27 BA-01-03_Copy_Copy - 00001_Copy_Copy	72.00	66.28	73.13	9.37 %
B 27 BA-02-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %
B 27 BA-03-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %

Block Compliance

B 27 BA-04-03_Copy_Copy - 00001_Copy_Copy	72.10	54.55	64.50	15.43 %
B 27 BC-02-03_Copy_Copy - 00001_Copy_Copy	50.00	86.16	88.67	2.83 %
B 27 BC-03-03_Copy_Copy - 00001_Copy_Copy	50.00	75.57	80.72	6.38 %
BA-01-01_Copy_Copy - 00001_Copy_Copy	87.00	91.12	82.38	-10.61 %
BA-01-04_Copy_Copy - 00001_Copy_Copy	52.00	82.99	82.30	-0.84 %
BA-02-01_Copy_Copy - 00001_Copy_Copy	87.00	77.03	74.29	-3.69 %
BA-02-04_Copy_Copy - 00001_Copy_Copy	52.00	71.01	73.54	3.44 %
BA-03-01_Copy_Copy - 00001_Copy_Copy	87.00	77.03	74.29	-3.69 %
BA-03-04_Copy_Copy - 00001_Copy_Copy	52.00	71.01	73.54	3.44 %
BA-04-01_Copy_Copy - 00001_Copy_Copy	87.00	74.32	74.29	-0.04 %
BA-04-04_Copy_Copy - 00001_Copy_Copy	52.00	71.01	73.54	3.44 %
BA-05-04_Copy_Copy - 00001_Copy_Copy	53.00	82.60	79.38	-4.06 %
BA-06-04_Copy_Copy - 00001_Copy_Copy	53.00	95.21	86.43	-10.16 %
BB-01-01_Copy_Copy - 00001_Copy_Copy	74.00	71.56	77.01	7.08 %
BB-01-02_Copy_Copy - 00001_Copy_Copy	74.00	72.54	74.90	3.15 %
BB-01-03_Copy_Copy - 00001_Copy_Copy	74.00	72.41	74.79	3.18 %
BB-01-04_Copy_Copy - 00001_Copy_Copy	74.00	73.66	75.82	2.85 %
BB-02-01_Copy_Copy - 00001_Copy_Copy	74.00	74.23	77.01	3.61 %
BB-02-02_Copy_Copy - 00001_Copy_Copy	74.00	60.20	66.47	9.43 %
BB-02-03_Copy_Copy - 00001_Copy_Copy	74.00	60.10	66.37	9.45 %
BB-02-04_Copy_Copy - 00001_Copy_Copy	74.00	61.09	67.37	9.32 %
BB-03-01_Copy_Copy - 00001_Copy_Copy	74.00	74.23	77.01	3.61 %
BB-03-02_Copy_Copy - 00001_Copy_Copy	74.00	60.20	66.47	9.43 %
BB-03-03_Copy_Copy - 00001_Copy_Copy	74.00	60.10	66.37	9.45 %
BB-03-04_Copy_Copy - 00001_Copy_Copy	74.00	61.09	67.37	9.32 %
BB-04-01_Copy_Copy - 00001_Copy_Copy	74.00	74.23	77.01	3.61 %
BB-04-02_Copy_Copy - 00001_Copy_Copy	74.00	60.20	66.47	9.43 %
BB-04-03_Copy_Copy - 00001_Copy_Copy	74.00	60.10	66.37	9.45 %

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BB-04-04_Copy_Copy - 00001_Copy_Copy	74.00	61.09	67.37	9.32 %
BB-05-01_Copy_Copy - 00001_Copy_Copy	69.87	58.70	67.74	13.35 %
BB-05-02_Copy_Copy - 00001_Copy_Copy	69.00	62.05	66.84	7.17 %
BB-05-03_Copy_Copy - 00001_Copy_Copy	69.00	62.05	66.83	7.15 %
BB-05-04_Copy_Copy - 00001_Copy_Copy	69.00	62.05	66.95	7.32 %
BB-06-01_Copy_Copy - 00001_Copy_Copy	69.87	70.99	74.81	5.11 %
BB-06-02_Copy_Copy - 00001_Copy_Copy	69.00	73.95	73.75	-0.27 %
BB-06-03_Copy_Copy - 00001_Copy_Copy	69.00	73.95	73.74	-0.28 %
BB-06-04_Copy_Copy - 00001_Copy_Copy	69.00	73.95	73.86	-0.12 %
BC-01-01_Copy_Copy - 00001_Copy_Copy	52.00	81.66	81.28	-0.47 %
BC-01-02_Copy_Copy - 00001_Copy_Copy	86.00	71.33	73.37	2.78 %
BC-02-01_Copy_Copy - 00001_Copy_Copy	52.00	70.40	72.96	3.51 %
BC-02-02_Copy_Copy - 00001_Copy_Copy	86.00	58.25	64.88	10.22 %
BC-03-01_Copy_Copy - 00001_Copy_Copy	52.00	70.40	72.96	3.51 %
BC-03-02_Copy_Copy - 00001_Copy_Copy	86.00	58.25	64.88	10.22 %
BC-04-01_Copy_Copy - 00001_Copy_Copy	52.00	70.40	72.96	3.51 %
BC-04-02_Copy_Copy - 00001_Copy_Copy	86.00	58.25	64.88	10.22 %
BC-04-03_Copy_Copy - 00001_Copy_Copy	80.00	54.91	70.34	21.94 %
BC-05-01_Copy_Copy - 00001_Copy_Copy	62.00	64.20	67.37	4.71 %
BC-05-02_Copy_Copy - 00001_Copy_Copy	63.00	85.12	82.40	-3.30 %
BC-05-03_Copy_Copy - 00001_Copy_Copy	86.00	62.31	73.89	15.67 %
BC-06-01_Copy_Copy - 00001_Copy_Copy	62.00	64.20	67.37	4.71 %
Totals:	4490.74	4440.25	4734.07	
Average DPER = 67.65 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 72.42 $kgCO_2/m^2$	6.58 %			

12.2 Block E

Block Compliance

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Block Reference	Block E_27112024 Updates	Issued on Date	29/11/2024
Block Name	Block E		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block E_27112024 Updates | **Block Name: Block E**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BE-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	11.30	13.01	13.14 %
A 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	13.62	15.62	12.80 %
B 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	16.73	16.96	1.36 %
BE-01-01_Copy_Copy - 00001_Copy_Copy	54.00	14.63	16.43	10.96 %
BE-01-02_Copy_Copy - 00001_Copy_Copy	73.00	12.36	14.79	16.43 %
BE-01-03_Copy_Copy - 00001_Copy_Copy	72.00	12.02	13.99	14.08 %
BE-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	13.10	14.76	11.25 %
BE-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	13.06	14.06	7.11 %
BE-01-06_Copy_Copy - 00001_Copy_Copy	60.00	13.98	16.02	12.73 %
BE-01-07_Copy_Copy - 00001_Copy_Copy	41.00	14.76	16.31	9.50 %
BE-01-08_Copy_Copy - 00001_Copy_Copy	41.00	16.04	11.99	-33.78 %
BE-01-09_Copy_Copy - 00001_Copy_Copy	54.00	14.63	16.43	10.96 %
BE-02-01_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-02-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %
BE-02-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-02-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-02-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-02-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-02-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-03-01_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %

Block Compliance

BE-03-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %
BE-03-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-03-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-03-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-03-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-03-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-04-01_Copy_Copy - 00001_Copy_Copy	54.00	11.06	14.79	25.22 %
BE-04-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %
BE-04-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-04-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-04-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-04-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-04-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-05-01_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-05-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %
BE-05-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-05-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-05-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-05-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-05-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-06-01_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-06-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %

Block Compliance

BE-06-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-06-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-06-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-06-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-06-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-07-01_Copy_Copy - 00001_Copy_Copy	54.00	11.06	14.79	25.22 %
BE-07-02_Copy_Copy - 00001_Copy_Copy	73.00	10.01	13.21	24.22 %
BE-07-03_Copy_Copy - 00001_Copy_Copy	72.00	9.80	12.42	21.10 %
BE-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-07-06_Copy_Copy - 00001_Copy_Copy	60.00	11.69	14.51	19.43 %
BE-07-07_Copy_Copy - 00001_Copy_Copy	41.00	13.04	14.82	12.01 %
BE-07-08_Copy_Copy - 00001_Copy_Copy	41.00	13.87	10.42	-33.11 %
BE-07-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-08-01_Copy_Copy - 00001_Copy_Copy	54.00	11.06	14.79	25.22 %
BE-08-02_Copy_Copy - 00001_Copy_Copy	73.00	11.06	13.85	20.14 %
BE-08-03_Copy_Copy - 00001_Copy_Copy	72.00	10.78	13.05	17.39 %
BE-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	11.25	13.28	15.29 %
BE-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	10.74	12.60	14.76 %
BE-08-06_Copy_Copy - 00001_Copy_Copy	60.00	12.78	15.14	15.59 %
BE-08-07_Copy_Copy - 00001_Copy_Copy	41.00	13.78	15.44	10.75 %
BE-08-08_Copy_Copy - 00001_Copy_Copy	41.00	14.36	11.07	-29.72 %
BE-08-09_Copy_Copy - 00001_Copy_Copy	54.00	12.15	14.79	17.85 %
BE-09-01_Copy_Copy - 00001_Copy_Copy	84.80	10.80	13.17	18.00 %
BE-09-02_Copy_Copy - 00001_Copy_Copy	101.00	9.74	12.08	19.37 %
BE-09-03_Copy_Copy - 00001_Copy_Copy	101.00	10.40	12.79	18.69 %

Block Compliance

BE-09-04_Copy_Copy - 00001_Copy_Copy	84.80	9.30	13.17	29.38 %
Totals:	4652.60	940.45	1080.63	
Average DER = 11.68 kgCO₂/m²	% DER/TER	PASS		
Average TER = 13.67 kgCO₂/m²	14.56 %			

Block Compliance Report - DFEE

Block Reference: Block E_27112024 Updates	Block Name: Block E			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
27 BE-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	40.07	35.98	-11.34 %
A 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	42.31	39.88	-6.10 %
B 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	56.08	45.96	-22.00 %
BE-01-01_Copy_Copy - 00001_Copy_Copy	54.00	39.45	36.72	-7.42 %
BE-01-02_Copy_Copy - 00001_Copy_Copy	73.00	35.85	35.67	-0.53 %
BE-01-03_Copy_Copy - 00001_Copy_Copy	72.00	34.44	31.82	-8.25 %
BE-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	30.81	28.93	-6.51 %
BE-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	32.16	26.85	-19.81 %
BE-01-06_Copy_Copy - 00001_Copy_Copy	60.00	40.21	37.60	-6.93 %
BE-01-07_Copy_Copy - 00001_Copy_Copy	41.00	31.37	29.57	-6.09 %
BE-01-08_Copy_Copy - 00001_Copy_Copy	41.00	37.64	36.76	-2.39 %
BE-01-09_Copy_Copy - 00001_Copy_Copy	54.00	39.45	36.72	-7.42 %
BE-02-01_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-02-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-02-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-02-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %

Block Compliance

BE-02-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-02-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-02-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-03-01_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-03-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-03-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-03-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-03-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-03-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-03-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-04-01_Copy_Copy - 00001_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-04-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-04-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-04-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-04-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-04-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-04-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-05-01_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-05-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-05-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-05-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %

Block Compliance

BE-05-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-05-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-05-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-06-01_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-06-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-06-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-06-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-06-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-06-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-06-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-07-01_Copy_Copy - 00001_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-07-02_Copy_Copy - 00001_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-07-03_Copy_Copy - 00001_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-07-06_Copy_Copy - 00001_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-07-07_Copy_Copy - 00001_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-07-08_Copy_Copy - 00001_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-07-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-08-01_Copy_Copy - 00001_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-08-02_Copy_Copy - 00001_Copy_Copy	73.00	29.98	31.44	4.67 %
BE-08-03_Copy_Copy - 00001_Copy_Copy	72.00	28.58	27.62	-3.47 %
BE-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %

Block Compliance

BE-08-06_Copy_Copy - 00001_Copy_Copy	60.00	34.80	33.67	-3.33 %
BE-08-07_Copy_Copy - 00001_Copy_Copy	41.00	25.94	25.63	-1.18 %
BE-08-08_Copy_Copy - 00001_Copy_Copy	41.00	29.40	32.64	9.91 %
BE-08-09_Copy_Copy - 00001_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-09-01_Copy_Copy - 00001_Copy_Copy	84.80	33.17	31.74	-4.51 %
BE-09-02_Copy_Copy - 00001_Copy_Copy	101.00	32.19	30.98	-3.92 %
BE-09-03_Copy_Copy - 00001_Copy_Copy	101.00	35.54	34.03	-4.44 %
BE-09-04_Copy_Copy - 00001_Copy_Copy	84.80	25.90	31.74	18.41 %
Totals:	4652.60	2130.72	2232.39	
Average DFEE = 27.50 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 28.63 $kgCO_2/m^2$	3.93 %			

Block Compliance Report - DPER

Block Reference: Block E_27112024 Updates	Block Name: Block E			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
27 BE-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	66.16	70.24	5.81 %
A 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	79.75	84.66	5.80 %
B 27 BE-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	96.46	91.87	-5.00 %
BE-01-01_Copy_Copy - 00001_Copy_Copy	54.00	86.43	89.39	3.31 %
BE-01-02_Copy_Copy - 00001_Copy_Copy	73.00	73.08	80.29	8.98 %
BE-01-03_Copy_Copy - 00001_Copy_Copy	72.00	71.32	75.97	6.12 %
BE-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	78.35	80.44	2.60 %
BE-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	77.92	76.66	-1.64 %
BE-01-06_Copy_Copy - 00001_Copy_Copy	60.00	82.87	87.06	4.81 %
BE-01-07_Copy_Copy - 00001_Copy_Copy	41.00	88.71	89.23	0.58 %
BE-01-08_Copy_Copy - 00001_Copy_Copy	41.00	95.47	63.95	-49.29 %
BE-01-09_Copy_Copy - 00001_Copy_Copy	54.00	86.43	89.39	3.31 %
BE-02-01_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %

Block Compliance

BE-02-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %
BE-02-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-02-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-02-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-02-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-02-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-03-01_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-03-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %
BE-03-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-03-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-03-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-03-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-03-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-04-01_Copy_Copy - 00001_Copy_Copy	54.00	67.21	80.58	16.59 %
BE-04-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %
BE-04-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-04-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-04-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-04-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-04-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-05-01_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-05-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %

Block Compliance

BE-05-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-05-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-05-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-05-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-05-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-06-01_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-06-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %
BE-06-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-06-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-06-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-06-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-06-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-07-01_Copy_Copy - 00001_Copy_Copy	54.00	67.21	80.58	16.59 %
BE-07-02_Copy_Copy - 00001_Copy_Copy	73.00	60.45	71.76	15.76 %
BE-07-03_Copy_Copy - 00001_Copy_Copy	72.00	59.39	67.54	12.07 %
BE-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-07-06_Copy_Copy - 00001_Copy_Copy	60.00	70.56	78.93	10.60 %
BE-07-07_Copy_Copy - 00001_Copy_Copy	41.00	79.49	81.18	2.08 %
BE-07-08_Copy_Copy - 00001_Copy_Copy	41.00	83.81	55.49	-51.04 %
BE-07-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-08-01_Copy_Copy - 00001_Copy_Copy	54.00	67.21	80.58	16.59 %
BE-08-02_Copy_Copy - 00001_Copy_Copy	73.00	66.12	75.21	12.09 %
BE-08-03_Copy_Copy - 00001_Copy_Copy	72.00	64.64	70.93	8.87 %

Block Compliance

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BE-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	53.00	68.40	72.52	5.68 %
BE-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	56.00	65.45	68.81	4.88 %
BE-08-06_Copy_Copy - 00001_Copy_Copy	60.00	76.42	82.36	7.21 %
BE-08-07_Copy_Copy - 00001_Copy_Copy	41.00	83.42	84.52	1.30 %
BE-08-08_Copy_Copy - 00001_Copy_Copy	41.00	86.45	58.95	-46.65 %
BE-08-09_Copy_Copy - 00001_Copy_Copy	54.00	73.05	80.58	9.34 %
BE-09-01_Copy_Copy - 00001_Copy_Copy	84.80	64.12	71.38	10.17 %
BE-09-02_Copy_Copy - 00001_Copy_Copy	101.00	57.89	65.30	11.35 %
BE-09-03_Copy_Copy - 00001_Copy_Copy	101.00	61.44	69.14	11.14 %
BE-09-04_Copy_Copy - 00001_Copy_Copy	84.80	56.08	71.38	21.43 %
Totals:	4652.60	5663.86	5875.15	
Average DPER = 70.24 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 74.31 $kgCO_2/m^2$	5.47 %			

12.3 Block F

Block Compliance

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Block Reference	Block F_27112024 Updates	**Issued on Date**	29/11/2024
Block Name	Block F		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	**Assessor ID**	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block F_27112024 Updates | **Block Name: Block F**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BF-01-01_Copy_Copy - 00001_Copy_Copy	83.00	12.79	14.14	9.55 %
27 BF-01-02_Copy_Copy - 00001_Copy_Copy	86.00	10.97	12.34	11.10 %
27 BF-01-03_Copy_Copy - 00001_Copy_Copy	86.00	10.97	12.34	11.10 %
27 BF-01-04_Copy_Copy - 00001_Copy_Copy	83.00	11.56	14.14	18.25 %
27 BF-02-01_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.58	18.12 %
27 BF-02-02_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-02-03_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-02-04_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.57	18.06 %
27 BF-03-01_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.58	18.12 %
27 BF-03-02_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-03-03_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-03-04_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.57	18.06 %
27 BF-04-01_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.58	18.12 %
27 BF-04-02_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-04-03_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-04-04_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.57	18.06 %
27 BF-05-01_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.58	18.12 %
27 BF-05-02_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-05-03_Copy_Copy - 00001_Copy_Copy	86.00	8.86	10.82	18.11 %
27 BF-05-04_Copy_Copy - 00001_Copy_Copy	83.00	10.30	12.57	18.06 %
Totals:	1690.00	199.57	240.12	

Block Compliance

Average DER = 9.97 $kgCO_2/m^2$	% DER/TER	PASS
Average TER = 11.99 $kgCO_2/m^2$	16.88 %	

Block Compliance Report - DFEE

Block Reference: Block F_27112024 Updates	Block Name: Block F			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
27 BF-01-01_Copy_Copy - 00001_Copy_Copy	83.00	41.29	38.32	-7.74 %
27 BF-01-02_Copy_Copy - 00001_Copy_Copy	86.00	33.28	30.65	-8.56 %
27 BF-01-03_Copy_Copy - 00001_Copy_Copy	86.00	33.28	30.65	-8.56 %
27 BF-01-04_Copy_Copy - 00001_Copy_Copy	83.00	36.01	38.29	5.96 %
27 BF-02-01_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-02-02_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-02-03_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-02-04_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-03-01_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-03-02_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-03-03_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-03-04_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-04-01_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-04-02_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-04-03_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-04-04_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-05-01_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-05-02_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-05-03_Copy_Copy - 00001_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-05-04_Copy_Copy - 00001_Copy_Copy	83.00	30.27	31.35	3.45 %
Totals:	1690.00	566.91	580.05	
Average DFEE = 28.28 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 28.94 $kgCO_2/m^2$	2.26 %			

Block Compliance

Block Compliance Report - DPER

Block Reference: Block F_27112024 Updates	Block Name: Block F			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BF-01-01_Copy_Copy - 00001_Copy_Copy	83.00	74.85	75.61	1.01 %
27 BF-01-02_Copy_Copy - 00001_Copy_Copy	86.00	64.96	65.89	1.41 %
27 BF-01-03_Copy_Copy - 00001_Copy_Copy	86.00	64.96	65.89	1.41 %
27 BF-01-04_Copy_Copy - 00001_Copy_Copy	83.00	68.24	75.57	9.70 %
27 BF-02-01_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.17	8.55 %
27 BF-02-02_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-02-03_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-02-04_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.14	8.50 %
27 BF-03-01_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.17	8.55 %
27 BF-03-02_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-03-03_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-03-04_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.14	8.50 %
27 BF-04-01_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.17	8.55 %
27 BF-04-02_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-04-03_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-04-04_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.14	8.50 %
27 BF-05-01_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.17	8.55 %
27 BF-05-02_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-05-03_Copy_Copy - 00001_Copy_Copy	86.00	53.60	57.73	7.15 %
27 BF-05-04_Copy_Copy - 00001_Copy_Copy	83.00	61.43	67.14	8.50 %
Totals:	1690.00	1193.25	1282.04	
Average DPER = 59.60 $kgCO_2/m^2$	% DPER/TPER	PASS		
Average TPER = 64.02 $kgCO_2/m^2$	6.91 %			

12.4 Block G

Block Compliance

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Block Reference	Block G_15052024 Updates	Issued on Date	29/11/2024
Block Name	Block G		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block G_15052024 Updates	Block Name: Block G			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	14.73	16.24	9.30 %
BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	13.58	15.32	11.36 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	11.88	14.51	18.13 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	11.01	13.89	20.73 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	10.68	12.49	14.49 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	15.72	16.92	7.09 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	12.74	15.38	17.17 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	12.32	14.65	15.90 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.91	13.77	13.51 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.76	11.00	20.36 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.49	13.81	24.04 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	12.32	14.65	15.90 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.65	13.77	15.40 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.49	13.81	24.04 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	12.32	14.65	15.90 %

BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.59	13.77	15.83 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.57	15.38	11.77 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.46	13.81	24.26 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.78	13.56	20.50 %
BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	11.78	13.89	15.19 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.49	13.81	24.04 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.78	13.56	20.50 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	12.11	13.89	12.81 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	10.19	12.88	20.89 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.49	13.81	24.04 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.78	13.56	20.50 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	11.78	13.89	15.19 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.35	12.44	24.84 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.49	13.81	24.04 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.78	13.56	20.50 %

Block Compliance

BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	11.78	13.89	15.19 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	9.91	12.88	23.06 %
BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.75	13.81	22.16 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	10.29	12.73	19.17 %
BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	11.40	13.45	15.24 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	10.29	12.73	19.17 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	11.40	13.45	15.24 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.38	12.44	24.60 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	8.55	11.00	22.27 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.52	15.38	12.09 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	13.33	14.05	5.12 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	13.25	14.80	10.47 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	11.01	13.66	19.40 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	10.68	12.26	12.89 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	15.36	16.68	7.91 %
Totals:	4880.00	786.62	959.83	
Average DER = 10.67 kgCO₂/m²	**% DER/TER**	PASS		
Average TER = 13.16 kgCO₂/m²	18.97 %			

Block Compliance Report - DFEE

Block Reference: Block G_15052024 Updates	**Block Name: Block G**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	42.63	38.21	-11.58 %

Block Compliance

BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	33.22	30.79	-7.91 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	32.55	32.32	-0.71 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	30.86	32.69	5.62 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	37.17	34.09	-9.02 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	34.04	31.75	-7.22 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	39.57	39.05	-1.33 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %

Block Compliance

BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %

Block Compliance

BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	34.09	33.59	-1.50 %
BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	18.83	20.72	9.09 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	34.09	33.59	-1.50 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	18.83	20.72	9.09 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	44.77	39.40	-13.62 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	30.36	26.83	-13.15 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	30.86	31.69	2.63 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	37.17	33.08	-12.37 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	34.04	30.70	-10.88 %
Totals:	4880.00	1915.64	2005.90	
Average DFEE = 27.53 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 28.72 kgCO₂/m²	4.15 %			

Block Compliance Report - DPER

Block Reference: Block G_15052024 Updates	Block Name: Block G			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	86.54	88.39	2.09 %

Block Compliance

BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	81.08	83.63	3.05 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	70.75	78.94	10.37 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	65.66	75.49	13.02 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	62.81	67.60	7.09 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	93.92	92.63	-1.39 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	74.94	83.51	10.26 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	73.57	79.81	7.82 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	72.08	75.29	4.26 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	52.48	59.58	11.92 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.85	75.07	16.28 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	73.57	79.81	7.82 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	70.69	75.29	6.11 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.85	75.07	16.28 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	73.57	79.81	7.82 %
BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	70.34	75.29	6.57 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.34	84.33	2.36 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.70	75.07	16.48 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	64.48	73.72	12.53 %

Block Compliance

BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	71.47	75.94	5.89 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.85	75.07	16.28 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	64.48	73.72	12.53 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	73.22	75.94	3.58 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	61.67	70.17	12.11 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.85	75.07	16.28 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	64.48	73.72	12.53 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	71.47	75.94	5.89 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.74	67.67	16.15 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.85	75.07	16.28 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	64.48	73.72	12.53 %
BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	71.47	75.94	5.89 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	66.00	60.14	70.17	14.29 %
BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	64.23	75.07	14.44 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	60.88	68.95	11.70 %

Block Compliance

BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	69.89	73.77	5.26 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	60.88	68.95	11.70 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	69.89	73.77	5.26 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.88	67.67	15.95 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	51.37	59.58	13.78 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.11	84.33	2.63 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	97.00	77.26	76.06	-1.58 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	50.00	79.85	81.04	1.47 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	65.66	74.26	11.58 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	103.00	62.81	66.35	5.34 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	92.00	91.32	-0.74 %
Totals:	4880.00	4732.32	5229.50	
Average DPER = 64.07 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 71.64 $kgCO_2/m^2$	10.57 %			

12.5 Block H

Block Compliance

Block Reference	Block H_27112024 Updates	**Issued on Date**	29/11/2024
Block Name	Block H		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	**Assessor ID**	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block H_27112024 Updates | **Block Name: Block H**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BH-01-01_Copy_Copy - 00001_Copy_Copy	93.00	11.56	13.33	13.28 %
27 BH-01-02_Copy_Copy - 00001_Copy_Copy	70.00	12.55	14.12	11.12 %
27 BH-01-03_Copy_Copy - 00001_Copy_Copy	72.00	11.27	13.27	15.07 %
27 BH-01-04_Copy_Copy - 00001_Copy_Copy	90.00	10.70	12.46	14.13 %
27 BH-01-05_Copy_Copy - 00002_Copy_Copy	80.00	12.57	14.25	11.79 %
27 BH-02-01_Copy_Copy - 00001_Copy_Copy	93.00	9.04	11.71	22.80 %
27 BH-02-02_Copy_Copy - 00001_Copy_Copy	70.00	10.23	12.54	18.42 %
27 BH-02-03_Copy_Copy - 00001_Copy_Copy	72.00	9.45	11.87	20.39 %
27 BH-02-04_Copy_Copy - 00001_Copy_Copy	90.00	8.54	10.91	21.72 %
27 BH-02-05_Copy_Copy - 00001_Copy_Copy	80.00	9.05	11.45	20.96 %
27 BH-02-06_Copy_Copy - 00002_Copy_Copy	60.00	13.41	15.21	11.83 %
27 BH-03-01_Copy_Copy - 00001_Copy_Copy	93.00	9.04	11.71	22.80 %
27 BH-03-02_Copy_Copy - 00001_Copy_Copy	70.00	10.23	12.54	18.42 %
27 BH-03-03_Copy_Copy - 00001_Copy_Copy	72.00	9.45	11.87	20.39 %
27 BH-03-04_Copy_Copy - 00001_Copy_Copy	90.00	8.54	10.91	21.72 %
27 BH-03-05_Copy_Copy - 00001_Copy_Copy	80.00	9.05	11.45	20.96 %
27 BH-03-06_Copy_Copy - 00002_Copy_Copy	60.00	11.19	13.68	18.20 %
27 BH-04-01_Copy_Copy - 00001_Copy_Copy	93.00	9.04	11.71	22.80 %
27 BH-04-02_Copy_Copy - 00001_Copy_Copy	70.00	10.23	12.54	18.42 %
27 BH-04-03_Copy_Copy - 00001_Copy_Copy	72.00	9.45	11.87	20.39 %
27 BH-04-04_Copy_Copy - 00001_Copy_Copy	90.00	8.54	10.91	21.72 %
27 BH-04-05_Copy_Copy - 00001_Copy_Copy	80.00	9.05	11.45	20.96 %

Block Compliance

27 BH-04-06_Copy_Copy - 00002_Copy_Copy	60.00	11.19	13.68	18.20 %
27 BH-05-01_Copy_Copy - 00001_Copy_Copy	82.00	9.07	11.60	21.81 %
27 BH-05-02_Copy_Copy - 00001_Copy_Copy	72.00	9.38	11.77	20.31 %
27 BH-05-03_Copy_Copy - 00001_Copy_Copy	88.00	8.82	11.27	21.74 %
27 BH-05-04_Copy_Copy - 00001_Copy_Copy	80.00	9.08	11.48	20.91 %
27 BH-05-05_Copy_Copy - 00002_Copy_Copy	81.00	9.86	12.60	21.75 %
27 BH-06-01_Copy_Copy - 00001_Copy_Copy	82.00	9.07	11.60	21.81 %
27 BH-06-02_Copy_Copy - 00001_Copy_Copy	72.00	9.65	11.77	18.01 %
27 BH-06-03_Copy_Copy - 00001_Copy_Copy	88.00	8.82	11.27	21.74 %
27 BH-06-04_Copy_Copy - 00001_Copy_Copy	80.00	9.08	11.48	20.91 %
27 BH-06-05_Copy_Copy - 00002_Copy_Copy	81.00	9.86	12.60	21.75 %
27 BH-07-01_Copy_Copy - 00001_Copy_Copy	82.00	9.07	11.60	21.81 %
27 BH-07-02_Copy_Copy - 00001_Copy_Copy	72.00	9.38	11.77	20.31 %
27 BH-07-03_Copy_Copy - 00001_Copy_Copy	88.00	8.82	11.27	21.74 %
27 BH-07-04_Copy_Copy - 00001_Copy_Copy	80.00	9.08	11.48	20.91 %
27 BH-07-05_Copy_Copy - 00002_Copy_Copy	81.00	9.86	12.60	21.75 %
27 BH-08-01_Copy_Copy - 00001_Copy_Copy	82.00	11.43	12.96	11.81 %
27 BH-08-02_Copy_Copy - 00001_Copy_Copy	72.00	11.43	13.07	12.55 %
27 BH-08-03_Copy_Copy - 00001_Copy_Copy	88.00	11.01	12.57	12.41 %
27 BH-08-04_Copy_Copy - 00001_Copy_Copy	80.00	11.14	12.77	12.76 %
27 BH-08-05_Copy_Copy - 00002_Copy_Copy	81.00	12.34	13.96	11.60 %
Totals:	3412.00	429.62	526.93	
Average DER = 9.93 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 12.19 $kgCO_2/m^2$	18.60 %			

Block Compliance Report - DFEE

Block Reference: Block H_27112024 Updates	**Block Name: Block H**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
27 BH-01-01_Copy_Copy - 00001_Copy_Copy	93.00	38.09	35.01	-8.79 %

Block Compliance

27 BH-01-02_Copy_Copy - 00001_Copy_Copy	70.00	36.27	32.35	-12.14 %
27 BH-01-03_Copy_Copy - 00001_Copy_Copy	72.00	30.99	30.01	-3.27 %
27 BH-01-04_Copy_Copy - 00001_Copy_Copy	90.00	32.91	30.28	-8.68 %
27 BH-01-05_Copy_Copy - 00002_Copy_Copy	80.00	39.20	36.15	-8.41 %
27 BH-02-01_Copy_Copy - 00001_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-02-02_Copy_Copy - 00001_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-02-03_Copy_Copy - 00001_Copy_Copy	72.00	21.17	23.77	10.92 %
27 BH-02-04_Copy_Copy - 00001_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-02-05_Copy_Copy - 00001_Copy_Copy	80.00	22.13	22.48	1.53 %
27 BH-02-06_Copy_Copy - 00002_Copy_Copy	60.00	36.57	34.84	-4.95 %
27 BH-03-01_Copy_Copy - 00001_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-03-02_Copy_Copy - 00001_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-03-03_Copy_Copy - 00001_Copy_Copy	72.00	21.17	23.77	10.92 %
27 BH-03-04_Copy_Copy - 00001_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-03-05_Copy_Copy - 00001_Copy_Copy	80.00	22.13	22.48	1.53 %
27 BH-03-06_Copy_Copy - 00002_Copy_Copy	60.00	25.96	28.06	7.49 %
27 BH-04-01_Copy_Copy - 00001_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-04-02_Copy_Copy - 00001_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-04-03_Copy_Copy - 00001_Copy_Copy	72.00	21.17	23.77	10.92 %
27 BH-04-04_Copy_Copy - 00001_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-04-05_Copy_Copy - 00001_Copy_Copy	80.00	22.13	22.48	1.53 %
27 BH-04-06_Copy_Copy - 00002_Copy_Copy	60.00	25.96	28.06	7.49 %
27 BH-05-01_Copy_Copy - 00001_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-05-02_Copy_Copy - 00001_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-05-03_Copy_Copy - 00001_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-05-04_Copy_Copy - 00001_Copy_Copy	80.00	21.65	23.40	7.45 %

Block Compliance

27 BH-05-05_Copy_Copy - 00002_Copy_Copy	81.00	27.53	28.96	4.92 %
27 BH-06-01_Copy_Copy - 00001_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-06-02_Copy_Copy - 00001_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-06-03_Copy_Copy - 00001_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-06-04_Copy_Copy - 00001_Copy_Copy	80.00	21.65	23.40	7.45 %
27 BH-06-05_Copy_Copy - 00002_Copy_Copy	81.00	27.53	28.96	4.92 %
27 BH-07-01_Copy_Copy - 00001_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-07-02_Copy_Copy - 00001_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-07-03_Copy_Copy - 00001_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-07-04_Copy_Copy - 00001_Copy_Copy	80.00	21.65	23.40	7.45 %
27 BH-07-05_Copy_Copy - 00002_Copy_Copy	81.00	27.53	28.96	4.92 %
27 BH-08-01_Copy_Copy - 00001_Copy_Copy	82.00	34.37	29.93	-14.82 %
27 BH-08-02_Copy_Copy - 00001_Copy_Copy	72.00	31.76	28.17	-12.74 %
27 BH-08-03_Copy_Copy - 00001_Copy_Copy	88.00	34.17	30.64	-11.51 %
27 BH-08-04_Copy_Copy - 00001_Copy_Copy	80.00	32.43	29.16	-11.21 %
27 BH-08-05_Copy_Copy - 00002_Copy_Copy	81.00	38.83	34.97	-11.05 %
Totals:	3412.00	1136.65	1145.84	
Average DFEE = 26.44 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 26.64 kgCO₂/m²	0.75 %			

Block Compliance Report - DPER

Block Reference: Block H_27112024 Updates	Block Name: Block H			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
27 BH-01-01_Copy_Copy - 00001_Copy_Copy	93.00	67.94	71.83	5.42 %
27 BH-01-02_Copy_Copy - 00001_Copy_Copy	70.00	74.30	76.39	2.74 %
27 BH-01-03_Copy_Copy - 00001_Copy_Copy	72.00	67.16	71.72	6.36 %
27 BH-01-04_Copy_Copy - 00001_Copy_Copy	90.00	63.43	67.20	5.61 %
27 BH-01-05_Copy_Copy - 00002_Copy_Copy	80.00	73.81	76.92	4.04 %

Block Compliance

27 BH-02-01_Copy_Copy - 00001_Copy_Copy	93.00	54.39	63.12	13.83 %
27 BH-02-02_Copy_Copy - 00001_Copy_Copy	70.00	61.80	67.90	8.98 %
27 BH-02-03_Copy_Copy - 00001_Copy_Copy	72.00	57.37	64.18	10.61 %
27 BH-02-04_Copy_Copy - 00001_Copy_Copy	90.00	51.85	58.88	11.94 %
27 BH-02-05_Copy_Copy - 00001_Copy_Copy	80.00	55.29	62.10	10.97 %
27 BH-02-06_Copy_Copy - 00002_Copy_Copy	60.00	79.35	82.35	3.64 %
27 BH-03-01_Copy_Copy - 00001_Copy_Copy	93.00	54.39	63.12	13.83 %
27 BH-03-02_Copy_Copy - 00001_Copy_Copy	70.00	61.80	67.90	8.98 %
27 BH-03-03_Copy_Copy - 00001_Copy_Copy	72.00	57.37	64.18	10.61 %
27 BH-03-04_Copy_Copy - 00001_Copy_Copy	90.00	51.85	58.88	11.94 %
27 BH-03-05_Copy_Copy - 00001_Copy_Copy	80.00	55.29	62.10	10.97 %
27 BH-03-06_Copy_Copy - 00002_Copy_Copy	60.00	67.44	74.13	9.02 %
27 BH-04-01_Copy_Copy - 00001_Copy_Copy	93.00	54.39	63.12	13.83 %
27 BH-04-02_Copy_Copy - 00001_Copy_Copy	70.00	61.80	67.90	8.98 %
27 BH-04-03_Copy_Copy - 00001_Copy_Copy	72.00	57.37	64.18	10.61 %
27 BH-04-04_Copy_Copy - 00001_Copy_Copy	90.00	51.85	58.88	11.94 %
27 BH-04-05_Copy_Copy - 00001_Copy_Copy	80.00	55.29	62.10	10.97 %
27 BH-04-06_Copy_Copy - 00002_Copy_Copy	60.00	67.44	74.13	9.02 %
27 BH-05-01_Copy_Copy - 00001_Copy_Copy	82.00	55.24	62.82	12.07 %
27 BH-05-02_Copy_Copy - 00001_Copy_Copy	72.00	57.18	63.77	10.33 %
27 BH-05-03_Copy_Copy - 00001_Copy_Copy	88.00	53.37	60.81	12.23 %
27 BH-05-04_Copy_Copy - 00001_Copy_Copy	80.00	55.09	62.07	11.25 %
27 BH-05-05_Copy_Copy - 00002_Copy_Copy	81.00	59.20	68.04	12.99 %
27 BH-06-01_Copy_Copy - 00001_Copy_Copy	82.00	55.24	62.82	12.07 %
27 BH-06-02_Copy_Copy - 00001_Copy_Copy	72.00	58.63	63.77	8.06 %
27 BH-06-03_Copy_Copy - 00001_Copy_Copy	88.00	53.37	60.81	12.23 %
27 BH-06-04_Copy_Copy - 00001_Copy_Copy	80.00	55.09	62.07	11.25 %
27 BH-06-05_Copy_Copy - 00002_Copy_Copy	81.00	59.20	68.04	12.99 %

Block Compliance

27 BH-07-01_Copy_Copy - 00001_Copy_Copy	82.00	55.24	62.82	12.07 %
27 BH-07-02_Copy_Copy - 00001_Copy_Copy	72.00	57.18	63.77	10.33 %
27 BH-07-03_Copy_Copy - 00001_Copy_Copy	88.00	53.37	60.81	12.23 %
27 BH-07-04_Copy_Copy - 00001_Copy_Copy	80.00	55.09	62.07	11.25 %
27 BH-07-05_Copy_Copy - 00002_Copy_Copy	81.00	59.20	68.04	12.99 %
27 BH-08-01_Copy_Copy - 00001_Copy_Copy	82.00	67.92	70.16	3.19 %
27 BH-08-02_Copy_Copy - 00001_Copy_Copy	72.00	68.20	70.78	3.65 %
27 BH-08-03_Copy_Copy - 00001_Copy_Copy	88.00	65.14	67.82	3.95 %
27 BH-08-04_Copy_Copy - 00001_Copy_Copy	80.00	66.18	69.00	4.09 %
27 BH-08-05_Copy_Copy - 00002_Copy_Copy	81.00	72.52	75.33	3.73 %
Totals:	3412.00	2584.62	2848.83	
Average DPER = 59.72 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 65.92 $kgCO_2/m^2$	9.41 %			

12.6 Block J1J2

Block Compliance

Block Reference	Block J1J2_15052024 Updates	Issued on Date	29/11/2024
Block Name	Block J1J2		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block J1J2_15052024 Updates | **Block Name: Block J1J2**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	97.30	9.54	12.86	25.82 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	135.60	7.62	10.54	27.70 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.38	13.15	21.06 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	12.70	14.83	14.36 %
BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.13	14.95	12.17 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	12.70	14.83	14.36 %
BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.13	14.95	12.17 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %

Block Compliance

BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	12.70	14.83	14.36 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.13	14.95	12.17 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	12.70	14.83	14.36 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.13	14.95	12.17 %
BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	13.16	14.79	11.02 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %

Block Compliance

BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.88	13.33	18.38 %
BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %

Block Compliance

BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.13	13.15	22.97 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	12.79	14.79	13.52 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.03	13.14	16.06 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	9.30	11.63	20.03 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	9.90	12.40	20.16 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.10	13.29	16.48 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	10.64	13.33	20.18 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.46	11.46	26.18 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.08	10.92	26.01 %
BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.82	24.95 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.87	25.30 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.46	11.46	26.18 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.08	10.92	26.01 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.82	24.95 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.87	25.30 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.46	11.46	26.18 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.08	10.92	26.01 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.82	24.95 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.12	10.87	25.30 %
BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	11.01	12.86	14.39 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	10.42	12.28	15.15 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	10.34	12.13	14.76 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	10.40	12.21	14.82 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	86.64	11.42	14.20	19.58 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	122.50	9.71	12.36	21.44 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy_Copy	79.50	9.23	12.17	24.16 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy_Copy	87.10	9.10	11.77	22.68 %

Block Compliance

BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy_Copy	117.17	8.96	11.62	22.89 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	9.44	11.59	18.55 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	10.67	11.74	9.11 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	12.27	13.27	7.54 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	11.86	17.45 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	9.44	11.59	18.55 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	10.67	11.74	9.11 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	12.27	13.27	7.54 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	11.86	17.45 %
BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	9.44	11.59	18.55 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	10.67	11.74	9.11 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	12.27	13.27	7.54 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	11.86	17.45 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	11.91	12.93	7.89 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	12.05	12.95	6.95 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	13.74	14.58	5.76 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	11.95	13.14	9.06 %
Totals:	8239.81	1312.07	1591.35	
Average DER = 10.29 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 12.64 $kgCO_2/m^2$	18.66 %			

Block Compliance Report - DFEE

Block Reference: Block J1J2_15052024 Updates	**Block Name: Block J1J2**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	97.30	29.70	32.51	8.63 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	135.60	28.25	28.49	0.87 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %

Block Compliance

BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %

Block Compliance

BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %

Block Compliance

BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %

Block Compliance

BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	37.53	32.79	-14.45 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	34.65	30.28	-14.45 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	34.03	30.00	-13.43 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	34.40	30.11	-14.26 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	86.64	35.62	38.46	7.40 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	122.50	35.88	38.24	6.17 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy_Copy	79.50	21.82	27.52	20.70 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy_Copy	87.10	23.74	27.68	14.23 %
BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy_Copy	117.17	31.29	34.45	9.18 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %

Block Compliance

BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	38.98	34.99	-11.39 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	25.64	22.50	-13.91 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	27.81	24.41	-13.93 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	34.43	30.80	-11.76 %
Totals:	8239.81	2778.61	2907.64	
Average DFEE = 23.74 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 24.64 kgCO₂/m²	3.68 %			

Block Compliance Report - DPER

Block Reference: Block J1J2_15052024 Updates	Block Name: Block J1J2			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	97.30	57.02	70.09	18.65 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	135.60	45.98	57.44	19.95 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	62.36	71.94	13.32 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	77.58	81.76	5.11 %
BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.30	82.54	2.71 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	77.58	81.76	5.11 %

Block Compliance

BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.30	82.54	2.71 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	77.58	81.76	5.11 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.30	82.54	2.71 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	43.00	77.58	81.76	5.11 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.30	82.54	2.71 %
BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	80.18	81.61	1.75 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %

Block Compliance

BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	64.99	72.86	10.80 %

Block Compliance

BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.99	71.94	15.22 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	42.00	78.19	81.61	4.19 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.74	72.48	6.54 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	68.00	57.22	64.00	10.59 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	60.62	68.18	11.09 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.88	73.19	7.26 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	76.00	63.66	72.86	12.63 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	51.14	62.58	18.28 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.12	59.67	17.68 %
BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.20	59.07	16.71 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.27	59.38	17.03 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	51.14	62.58	18.28 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.12	59.67	17.68 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.20	59.07	16.71 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.27	59.38	17.03 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	51.14	62.58	18.28 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.12	59.67	17.68 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.20	59.07	16.71 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	49.27	59.38	17.03 %

Block Compliance

BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	64.89	70.11	7.45 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	61.70	67.00	7.91 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	61.13	66.10	7.52 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	61.51	66.58	7.61 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy_Copy	86.64	67.59	76.05	11.12 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy_Copy	122.50	57.22	65.81	13.05 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy_Copy	79.50	55.97	65.12	14.05 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy_Copy	87.10	55.01	62.95	12.61 %
BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy_Copy	117.17	53.27	61.83	13.84 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	56.51	61.82	8.59 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	65.41	63.24	-3.43 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	75.14	71.72	-4.77 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.15	63.44	6.76 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	56.51	61.82	8.59 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	65.41	63.24	-3.43 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	75.14	71.72	-4.77 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.15	63.44	6.76 %
BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	56.51	61.82	8.59 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	65.41	63.24	-3.43 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	75.14	71.72	-4.77 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.15	63.44	6.76 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	69.80	69.03	-1.12 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	54.00	72.82	69.72	-4.45 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	44.00	83.05	78.77	-5.43 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	70.79	70.35	-0.63 %
Totals:	8239.81	7970.92	8709.17	
Average DPER = 62.33 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 69.08 $kgCO_2/m^2$	9.77 %			

12.7 Block K

Block Compliance

Block Reference	Block K_15052024 Updates	Issued on Date	29/11/2024
Block Name	Block K		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block K_15052024 Updates | **Block Name: Block K**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	12.76	14.61	12.66 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	12.98	14.60	11.10 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	14.22	26.58 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	10.81	12.61	14.27 %
BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.66	11.72	26.11 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.74	14.39	11.47 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	14.53	16.06	9.53 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	11.92	13.90	14.24 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	9.08	11.67	22.19 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.69	13.03	17.96 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	11.93	14.40	17.15 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	8.57	11.06	22.51 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.65	12.31	21.61 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	9.08	11.67	22.19 %

Block Compliance

BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.69	13.03	17.96 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	11.93	14.40	17.15 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.64	11.13	22.37 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.65	12.31	21.61 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	9.08	11.67	22.19 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.68	13.06	18.22 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.69	13.03	17.96 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	11.93	14.40	17.15 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.64	11.13	22.37 %
BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.71	12.31	21.12 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	11.35	13.01	12.76 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	13.08	14.39	9.10 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	12.88	14.39	10.49 %

Block Compliance

BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	124.00	8.63	10.63	18.81 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	126.00	10.11	11.61	12.92 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.64	11.13	22.37 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.65	12.31	21.61 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.64	11.13	22.37 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.65	12.31	21.61 %
BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	10.64	13.00	18.15 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.44	12.65	17.47 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.64	11.13	22.37 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	7.66	10.14	24.46 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.02	12.84	14.17 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.65	12.31	21.61 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	12.76	14.36	11.14 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	12.98	14.36	9.61 %

Block Compliance

BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	118.00	8.08	10.32	21.71 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	145.00	8.71	11.14	21.81 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	148.00	7.45	10.50	29.05 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.21	13.06	14.17 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	8.84	12.29	28.07 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.07	14.44	9.49 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	11.92	13.65	12.67 %
Totals:	5923.00	899.06	1083.27	
Average DER = 10.14 kgCO₂/m²	% DER/TER	PASS		
Average TER = 12.39 kgCO₂/m²	18.15 %			

Block Compliance Report - DFEE

Block Reference: Block K_15052024 Updates	Block Name: Block K			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	32.95	30.36	-8.52 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	29.78	27.13	-9.74 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	28.94	28.83 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	34.27	31.60	-8.43 %
BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	25.59	28.67	10.74 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	29.00	26.33	-10.15 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	28.58	26.40	-8.28 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	34.40	31.66	-8.66 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %

Block Compliance

BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	23.36	24.71	5.47 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %

Block Compliance

BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	34.28	30.41	-12.75 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	34.31	30.43	-12.74 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	34.31	30.43	-12.74 %
BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	124.00	30.91	28.68	-7.78 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	126.00	37.29	33.98	-9.72 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %

Block Compliance

BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	32.95	29.22	-12.75 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	29.78	26.04	-14.37 %
BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	118.00	28.10	26.35	-6.61 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	145.00	34.28	35.33	2.96 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	148.00	29.20	32.18	9.27 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	27.72	32.27	14.10 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	34.40	30.55	-12.60 %
Totals:	5923.00	1994.81	2067.73	
Average DFEE = 24.25 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 25.07 $kgCO_2/m^2$	3.28 %			

Block Compliance Report - DPER

Block Reference: Block K_15052024 Updates	Block Name: Block K			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	76.10	79.43	4.19 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	78.18	79.65	1.85 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	77.28	17.70 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	63.89	68.13	6.22 %

Block Compliance

BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	52.28	63.38	17.51 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	76.90	78.53	2.08 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	88.18	87.95	-0.26 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	70.83	75.39	6.05 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	55.01	63.22	12.99 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.65	70.81	8.70 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	71.60	78.32	8.58 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	51.88	59.81	13.26 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.60	66.84	12.33 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	55.01	63.22	12.99 %
BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.65	70.81	8.70 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	71.60	78.32	8.58 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	52.28	60.20	13.16 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %

Block Compliance

BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.60	66.84	12.33 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	55.01	63.22	12.99 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.62	70.96	8.93 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	64.65	70.81	8.70 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	63.00	71.60	78.32	8.58 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	52.28	60.20	13.16 %
BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.92	66.84	11.85 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	83.00	67.19	70.42	4.59 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	77.55	78.12	0.73 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	76.48	78.12	2.10 %
BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	124.00	51.42	57.26	10.20 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	126.00	59.27	62.47	5.12 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	52.28	60.20	13.16 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.60	66.84	12.33 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %

Block Compliance

BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	52.28	60.20	13.16 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.60	66.84	12.33 %
BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	64.69	70.73	8.54 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.60	68.87	7.65 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	52.28	60.20	13.16 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	46.86	54.87	14.60 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	67.68	70.17	3.55 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	58.60	66.84	12.33 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	60.00	76.10	78.07	2.52 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	78.18	78.34	0.20 %
BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	118.00	48.64	55.64	12.58 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	145.00	51.37	59.75	14.03 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	148.00	44.57	56.32	20.86 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	68.65	71.35	3.78 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	100.00	53.02	66.31	20.04 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.31	79.22	-1.38 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	70.83	74.06	4.36 %
Totals:	5923.00	5450.98	5891.11	
Average DPER = 61.37 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 67.28 $kgCO_2/m^2$	8.78 %			

12.8 Block L

Block Compliance

Block Reference	Block L_Be Lean_27 U	Issued on Date	02/12/2024
Block Name	Block L		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block L_Be Lean_27 U | **Block Name: Block L**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	11.92	13.96	14.61 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	15.92	17.44	8.72 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	15.74	17.44	9.75 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	11.47	13.50	15.04 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	9.45	11.69	19.16 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	10.35	11.08	6.59 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	11.54	12.86	10.26 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	12.12	13.47	10.02 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	12.04	13.47	10.62 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	11.20	13.79	18.78 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	10.13	10.47	3.25 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %

Block Compliance

27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	10.13	10.47	3.25 %
27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	9.82	10.47	6.21 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.83	12.31	20.15 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.49	12.31	22.91 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	9.82	10.47	6.21 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %

Block Compliance

27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	9.82	10.47	6.21 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	9.82	10.47	6.21 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.52	11.34	16.05 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.98	11.92	16.28 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	9.39	12.31	23.72 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	13.66	15.78	13.43 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	9.19	11.88	22.64 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	8.17	10.69	23.57 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	9.82	10.47	6.21 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.79	11.34	13.67 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.98	11.92	16.28 %

Block Compliance

27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	9.71	11.92	18.54 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	9.54	12.31	22.50 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	11.92	13.70	12.99 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	15.74	17.18	8.38 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	15.74	17.18	8.38 %
27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	11.47	13.25	13.43 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	10.35	12.04	14.04 %
Totals:	5735.00	905.38	1082.85	
Average DER = 10.23 kgCO₂/m²	% DER/TER	PASS		
Average TER = 12.38 kgCO₂/m²	17.33 %			

Block Compliance Report - DFEE

Block Reference: Block L_Be Lean_27 U	Block Name: Block L			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	37.93	35.03	-8.28 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	32.79	-6.58 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	32.79	-6.58 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	33.70	30.71	-9.73 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	27.83	26.51	-4.96 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	16.24	16.32	0.47 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	31.54	28.29	-11.47 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	32.49	30.98	-4.86 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	32.49	30.98	-4.86 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	28.02	32.04	12.54 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %

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27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %

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27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %

Block Compliance

27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	37.93	33.90	-11.89 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	31.66	-10.40 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	31.66	-10.40 %
27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	33.70	29.58	-13.93 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	32.08	28.06	-14.33 %
Totals:	5735.00	1948.48	2078.51	
Average DFEE = 22.96 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 24.43 $kgCO_2/m^2$	6.02 %			

Block Compliance Report - DPER

Block Reference: Block L_Be Lean_27 U	**Block Name: Block L**

Block Compliance

Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	70.17	75.61	7.19 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	95.28	95.41	0.14 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	94.36	95.41	1.10 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	68.33	73.42	6.93 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	56.77	63.44	10.51 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	62.35	59.54	-4.72 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	68.75	68.88	0.19 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	71.90	72.21	0.43 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	71.52	72.21	0.96 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	67.02	73.89	9.30 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	61.15	56.23	-8.75 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	61.15	56.23	-8.75 %
27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %

Block Compliance

27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	59.49	56.23	-5.80 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	59.67	65.92	9.48 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	57.07	66.78	14.54 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	59.49	56.23	-5.80 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %

Block Compliance

27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	59.49	56.23	-5.80 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	59.49	56.23	-5.80 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	57.87	60.72	4.69 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	60.41	63.88	5.43 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	56.55	66.78	15.32 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	83.13	86.44	3.83 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	56.04	64.70	13.38 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	49.86	58.06	14.12 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	59.49	56.23	-5.80 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	59.34	60.72	2.27 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	60.41	63.88	5.43 %
27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	58.96	63.88	7.70 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	58.12	65.92	11.83 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	70.17	74.25	5.49 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	94.36	94.01	-0.37 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	94.36	94.01	-0.37 %

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27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	68.33	72.06	5.18 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	61.61	65.30	5.65 %
Totals:	5735.00	5479.81	5861.00	
Average DPER = 61.92 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 66.93 kgCO₂/m²	7.49 %			

12.9 Block M

Block Compliance

elmhurst energy

Block Reference	Block M_15052024 Updates	Issued on Date	29/11/2024
Block Name	Block M		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block M_15052024 Updates	Block Name: Block M			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	10.92	13.19	17.21 %
BM-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	12.22	15.22	19.71 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	12.50	15.16	17.55 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	11.92	14.12	15.58 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	10.57	12.75	17.10 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	49.00	14.46	16.30	11.29 %
BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	14.21	16.88	15.82 %
BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	15.21	17.10	11.05 %
BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	12.08	15.13	20.16 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.38	11.51	27.19 %
BM-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.36	13.63	16.65 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.38	13.65	16.63 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.60	15.26	10.88 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.35	15.47	13.70 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.21	13.53	31.93 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.38	11.51	27.19 %
BM-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.84	12.61	21.97 %

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BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.53	11.18	23.70 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.09	13.65	18.75 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.22	15.26	13.37 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.73	15.47	11.25 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.17	13.53	32.22 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.38	11.51	27.19 %
BM-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.09	13.65	18.75 %
BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.24	15.26	13.24 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.35	15.47	13.70 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.17	13.53	32.22 %
BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.59	11.51	25.37 %
BM-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.03	13.63	19.08 %
BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.09	13.65	18.75 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.60	15.26	10.88 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.35	15.47	13.70 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.44	13.53	30.23 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	8.38	11.51	27.19 %
BM-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %

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BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.09	13.65	18.75 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.22	15.26	13.37 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.35	15.47	13.70 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.17	13.53	32.22 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.83	13.65	20.66 %
BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.36	13.63	16.65 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.09	13.65	18.75 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.22	15.26	13.37 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.35	15.47	13.70 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.01	14.12	29.11 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	10.64	13.63	21.94 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	10.05	12.69	20.80 %
BM-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.54	12.65	16.68 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.50	13.93	31.80 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	10.05	12.61	20.30 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.05	12.65	20.55 %
BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.79	13.93	29.72 %

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BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.10	13.63	18.56 %
BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.77	12.69	23.01 %
BM-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.58	13.65	22.49 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-12-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-12-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.50	13.93	31.80 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	13.59	23.03 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-13-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-13-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	13.59	23.03 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %

Block Compliance

BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-14-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-14-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	13.59	23.03 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-15-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-15-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	10.01	14.12	29.11 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	8.96	12.09	25.89 %
BM-16-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	13.59	23.03 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-16-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-16-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %
BM-17-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	8.75	11.87	26.28 %
BM-17-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	13.59	23.03 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	11.02	13.63	19.15 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	9.79	12.61	22.36 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	8.31	11.18	25.67 %
BM-17-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-17-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %

Block Compliance

BM-18-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	8.75	11.87	26.28 %
BM-18-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	10.46	14.94	29.99 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	12.50	14.92	16.22 %
BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	11.92	13.88	14.12 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	10.57	12.51	15.51 %
BM-18-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	9.79	12.69	22.85 %
BM-18-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.23	12.65	19.13 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	9.53	13.93	31.59 %
BM-19-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	8.75	11.87	26.28 %
BM-19-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	8.82	11.74	24.87 %
BM-19-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	7.97	10.79	26.14 %
BM-20-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	8.75	13.28	34.11 %
BM-20-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	8.82	11.74	24.87 %
BM-20-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	7.97	10.79	26.14 %
Totals:	10660.00	1516.49	1945.45	
Average DER = 9.92 kgCO_2/m²	**% DER/TER**	PASS		
Average TER = 12.88 kgCO_2/m²	23.01 %			

Block Compliance Report - DFEE

Block Reference: Block M_15052024 Updates	**Block Name: Block M**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	36.69	33.63	-9.11 %
BM-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	39.22	36.40	-7.75 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	27.03	28.46	5.03 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	34.45	32.12	-7.25 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	33.74	31.10	-8.48 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	49.00	35.51	33.11	-7.26 %
BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	31.05	29.18	-6.43 %

Block Compliance

BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	31.95	30.20	-5.79 %
BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	31.87	36.47	12.61 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %

Block Compliance

BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %

Block Compliance

BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	25.92	32.24	19.61 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %

Block Compliance

BM-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-12-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-12-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-13-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-13-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-14-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-14-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %

Block Compliance

elmhurst energy

BM-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-15-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-15-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	25.92	32.24	19.61 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-16-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-16-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-16-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-17-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %
BM-17-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-17-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-17-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-18-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %
BM-18-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	27.43	34.87	21.34 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	27.03	27.37	1.25 %

Block Compliance

elmhurst energy

BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	34.45	31.08	-10.86 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	33.74	30.01	-12.43 %
BM-18-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	24.15	25.00	3.38 %
BM-18-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.30	20.05	8.76 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-19-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %
BM-19-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	28.66	29.00	1.18 %
BM-19-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	24.29	24.43	0.57 %
BM-20-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	25.81	33.33	22.56 %
BM-20-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	28.66	29.00	1.18 %
BM-20-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	24.29	24.43	0.57 %
Totals:	10660.00	3497.87	3851.00	
Average DFEE = 24.11 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 26.35 $kgCO_2/m^2$	8.53 %			

Block Compliance Report - DPER

Block Reference: Block M_15052024 Updates	Block Name: Block M			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	64.43	72.12	10.66 %
BM-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	78.65	83.29	5.57 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	75.46	83.55	9.68 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	70.56	77.34	8.77 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	62.58	69.80	10.34 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	49.00	86.00	89.64	4.06 %
BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	86.11	93.16	7.57 %
BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	91.50	94.38	3.05 %
BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	71.47	82.77	13.65 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	50.77	63.11	19.55 %
BM-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %

Block Compliance

BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	69.32	75.27	7.90 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	68.60	75.09	8.64 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.82	84.45	1.93 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	81.47	85.61	4.84 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	56.01	74.19	24.50 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	50.77	63.11	19.55 %
BM-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.39	69.25	14.24 %
BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	51.63	61.31	15.79 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	67.01	75.09	10.76 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.78	84.45	4.35 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	83.50	85.61	2.46 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	55.80	74.19	24.79 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	50.77	63.11	19.55 %
BM-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	67.01	75.09	10.76 %
BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.89	84.45	4.22 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	81.47	85.61	4.84 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	55.80	74.19	24.79 %
BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	51.90	63.11	17.76 %
BM-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.56	75.27	10.24 %

Block Compliance

BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	67.01	75.09	10.76 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.82	84.45	1.93 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	81.47	85.61	4.84 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	57.23	74.19	22.86 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	99.00	50.77	63.11	19.55 %
BM-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	67.01	75.09	10.76 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.78	84.45	4.35 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	81.47	85.61	4.84 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	55.80	74.19	24.79 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	64.83	74.83	13.36 %
BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	69.32	75.27	7.90 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	67.01	75.09	10.76 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	80.78	84.45	4.35 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	81.47	85.61	4.84 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	60.31	77.34	22.02 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	65.44	75.27	13.06 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %

Block Compliance

BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	60.83	69.88	12.95 %
BM-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	64.26	69.82	7.96 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.56	76.34	24.60 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	60.54	69.25	12.58 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	61.63	69.82	11.73 %
BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	59.16	76.34	22.50 %
BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.96	75.27	9.71 %
BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.34	69.88	15.08 %
BM-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	63.44	74.83	15.22 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-12-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-12-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.56	76.34	24.60 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %

Block Compliance

BM-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	74.57	15.68 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-13-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-13-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	74.57	15.68 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-14-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-14-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	74.57	15.68 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-15-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-15-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	60.31	77.34	22.02 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	92.00	53.99	66.21	18.46 %
BM-16-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	74.57	15.68 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %

Block Compliance

BM-16-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-16-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-17-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	52.81	65.04	18.80 %
BM-17-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	74.57	15.68 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	67.51	75.27	10.31 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	59.13	69.25	14.61 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	50.44	61.31	17.73 %
BM-17-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-17-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-18-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	52.81	65.04	18.80 %
BM-18-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	62.88	81.82	23.15 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	75.46	82.25	8.26 %
BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	74.00	70.56	76.08	7.26 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	95.00	62.58	68.48	8.62 %
BM-18-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	75.00	59.46	69.88	14.91 %
BM-18-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	62.61	69.82	10.33 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	73.00	57.73	76.34	24.38 %
BM-19-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	52.81	65.04	18.80 %
BM-19-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	52.84	64.17	17.66 %
BM-19-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	48.35	59.14	18.24 %
BM-20-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	52.81	72.59	27.25 %
BM-20-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	52.84	64.17	17.66 %
BM-20-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	105.00	48.35	59.14	18.24 %
Totals:	10660.00	9188.52	10694.81	
Average DPER = 60.02 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 70.75 $kgCO_2/m^2$	15.16 %			

12.10 Block N

Block Compliance

Block Reference	Block N_15052024 Updates	Issued on Date	29/11/2024
Block Name	Block N		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block N_15052024 Updates | **Block Name: Block N**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	14.74	16.50	10.67 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.59	14.03	3.14 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	12.32	14.28	13.73 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	12.22	14.18	13.82 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.94	14.86	19.65 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.84	13.29	18.43 %
BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.34	12.67	18.39 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.40	14.40	27.78 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	12.58	14.49	13.18 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	11.38	14.40	20.97 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	11.83	13.68	13.52 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	4.00	139.54	127.55	-9.40 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.02	13.29	17.08 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.34	12.67	18.39 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.40	12.84	19.00 %
BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.48	12.94	19.01 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	9.81	12.84	23.60 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	9.34	12.08	22.68 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %

Block Compliance

BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.02	13.29	17.08 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.52	12.67	16.97 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.40	12.84	19.00 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	10.48	12.94	19.01 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	9.81	12.84	23.60 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	9.34	12.08	22.68 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.02	13.29	17.08 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.52	12.67	16.97 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	12.46	14.16	12.01 %
BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	12.58	14.25	11.72 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	11.38	14.16	19.63 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	11.83	13.44	11.98 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	11.02	13.29	17.08 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	10.52	12.67	16.97 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	11.06	13.15	15.89 %
BN-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	11.46	13.76	16.72 %
BN-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.87	13.11	17.09 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	11.46	13.76	16.72 %
BN-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.87	13.11	17.09 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %

Block Compliance

BN-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	11.46	13.76	16.72 %
BN-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.87	13.11	17.09 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	11.46	13.76	16.72 %
BN-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.87	13.11	17.09 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	12.29	14.86	17.29 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	12.77	12.79	0.16 %
BN-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	11.46	13.76	16.72 %
BN-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	10.87	13.11	17.09 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	14.74	16.25	9.29 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	13.59	13.83	1.74 %
BN-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	13.55	15.02	9.79 %
BN-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	12.90	14.37	10.23 %
Totals:	3578.00	876.27	988.61	
Average DER = 11.70 kgCO₂/m²	% DER/TER	PASS		
Average TER = 13.77 kgCO₂/m²	14.97 %			

Block Compliance Report - DFEE

Block Reference: Block N_15052024 Updates	Block Name: Block N			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	38.66	35.59	-8.62 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.26	17.25	-11.63 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	29.95	28.88	-3.73 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	29.76	27.26	-9.16 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %

Block Compliance

BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	21.17	29.81	28.99 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	32.90	30.36	-8.35 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	26.89	29.81	9.81 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	37.74	34.21	-10.31 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	4.00	285.41	198.33	-43.91 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	21.17	22.81	7.19 %
BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	21.80	23.39	6.78 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	16.32	22.81	28.47 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	26.23	26.99	2.79 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	21.17	22.81	7.19 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	21.80	23.39	6.78 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	16.32	22.81	28.47 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	26.23	26.99	2.79 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	32.26	28.72	-12.32 %

Block Compliance

BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	32.90	29.27	-12.39 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	26.89	28.72	6.37 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	37.74	33.10	-14.04 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	17.68	19.75	10.47 %
BN-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %

Block Compliance

BN-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	38.66	34.45	-12.20 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	19.26	16.27	-18.39 %
BN-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	34.62	31.17	-11.07 %
BN-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	32.81	29.00	-13.14 %
Totals:	3578.00	1754.16	1714.72	
Average DFEE = 24.39 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 24.99 kgCO₂/m²	2.40 %			

Block Compliance Report - DPER

Block Reference: Block N_15052024 Updates	Block Name: Block N			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	87.34	90.16	3.13 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.17	77.38	-6.19 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	73.58	77.97	5.63 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	73.39	77.59	5.41 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	72.32	81.34	11.09 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.63	72.65	9.66 %
BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.28	69.45	8.88 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	63.12	78.56	19.65 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	74.79	79.06	5.40 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	68.37	78.56	12.97 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	69.68	74.41	6.36 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	4.00	890.41	706.01	-26.12 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	66.61	72.65	8.31 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	63.28	69.45	8.88 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	63.12	70.19	10.07 %

Block Compliance

BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	63.53	70.70	10.14 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	59.95	70.19	14.59 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	56.29	65.78	14.43 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	66.61	72.65	8.31 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	64.26	69.45	7.47 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	63.12	70.19	10.07 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	63.53	70.70	10.14 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	59.95	70.19	14.59 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	56.29	65.78	14.43 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	66.61	72.65	8.31 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	64.26	69.45	7.47 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	74.17	77.25	3.99 %
BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	74.79	77.75	3.81 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy	62.00	68.37	77.25	11.50 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy	89.00	69.68	73.08	4.65 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	66.61	72.65	8.31 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	59.00	64.26	69.45	7.47 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	68.04	72.32	5.92 %
BN-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	69.22	75.25	8.01 %
BN-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.86	71.70	8.15 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %

Block Compliance

BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	69.22	75.25	8.01 %
BN-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.86	71.70	8.15 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	69.22	75.25	8.01 %
BN-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.86	71.70	8.15 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	69.22	75.25	8.01 %
BN-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.86	71.70	8.15 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	74.17	81.34	8.81 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	77.72	70.69	-9.94 %
BN-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	69.22	75.25	8.01 %
BN-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	65.86	71.70	8.15 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy	52.00	87.34	88.79	1.63 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy	40.00	82.17	76.26	-7.75 %
BN-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	56.00	80.43	82.01	1.93 %
BN-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	76.78	78.48	2.17 %
Totals:	3578.00	5338.82	5420.78	
Average DPER = 70.67 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 75.33 kgCO₂/m²	6.19 %			

12.11 Block P

Block Compliance

Block Reference	Block P_27112024 Updates	Issued on Date	29/11/2024
Block Name	Block P		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block P_27112024 Updates | **Block Name: Block P**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	12.16	14.69	17.22 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	13.51	13.56	0.37 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	10.55	12.44	15.19 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	10.72	12.74	15.86 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	9.59	11.25	14.76 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	9.61	11.94	19.51 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %

Block Compliance

BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	10.01	12.30	18.62 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	8.03	10.75	25.30 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	8.95	11.21	20.16 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	9.63	12.11	20.48 %
BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	12.97	14.49	10.49 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	10.44	12.07	13.50 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	10.80	12.44	13.18 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	11.10	13.68	18.86 %

Block Compliance

Totals:	4326.00	468.65	586.26	
Average DER = 9.23 kgCO₂/m²	% DER/TER	PASS		
Average TER = 11.60 kgCO₂/m²	20.44 %			

Block Compliance Report - DFEE

Block Reference: Block P_27112024 Updates	Block Name: Block P			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	24.65	26.59	7.28 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	45.12	31.72	-42.25 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	36.47	32.90	-10.83 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	33.97	30.86	-10.07 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	26.22	23.32	-12.41 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	12.81	18.20	29.62 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %

Block Compliance

elmhurst energy

BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %

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BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	36.54	31.84	-14.75 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	35.98	31.87	-12.89 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	32.40	28.71	-12.84 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	24.11	25.23	4.47 %
Totals:	4326.00	1252.43	1256.52	
Average DFEE = 25.58 $kgCO_2/m^2$	% DFEE/TFEE	FAIL		
Average TFEE = 25.48 $kgCO_2/m^2$	-0.41 %			

Block Compliance Report - DPER

Block Reference: Block P_27112024 Updates	Block Name: Block P			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	74.00	80.51	8.09 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	79.34	73.96	-7.27 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	62.22	67.39	7.67 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	63.74	69.27	7.98 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	57.59	61.15	5.82 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	59.43	65.50	9.27 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %

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BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	59.89	66.80	10.34 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	48.59	58.26	16.60 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	54.17	60.95	11.12 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	59.23	66.27	10.62 %

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BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	76.81	78.92	2.67 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	61.52	65.36	5.88 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	64.05	67.52	5.14 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	67.64	74.93	9.73 %
Totals:	4326.00	2830.10	3188.83	
Average DPER = 55.66 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 63.03 kgCO₂/m²	11.70 %			

12.12 Block Q

Block Compliance

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Block Reference	Block Q_27112024 Updates	Issued on Date	02/12/2024
Block Name	Block Q		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block Q_27112024 Updates	Block Name: Block Q			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	11.71	13.59	13.83 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	13.91	15.05	7.57 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	11.22	12.81	12.41 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	9.99	12.05	17.10 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	10.01	11.94	16.16 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	9.22	11.22	17.83 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	9.31	11.49	18.97 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	9.84	11.89	17.24 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	9.34	11.35	17.71 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	9.31	11.49	18.97 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	9.84	11.89	17.24 %
BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	9.34	11.35	17.71 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	11.51	12.78	9.94 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	11.93	13.18	9.48 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	11.36	12.69	10.48 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	11.90	13.35	10.86 %
BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	12.19	13.45	9.37 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	9.55	11.88	19.61 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	9.46	11.75	19.49 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	9.12	11.06	17.54 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	9.49	11.82	19.71 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	9.46	11.75	19.49 %

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BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	9.12	11.06	17.54 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	9.49	11.82	19.71 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	11.85	13.08	9.40 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	11.06	12.42	10.95 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	11.98	13.18	9.10 %
Totals:	2015.45	282.51	331.39	
Average DER = 10.39 $kgCO_2/m^2$	% DER/TER	PASS		
Average TER = 12.22 $kgCO_2/m^2$	14.96 %			

Block Compliance Report - DFEE

Block Reference: Block Q_27112024 Updates	Block Name: Block Q			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	21.04	23.85	11.77 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	33.12	31.02	-6.76 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	30.41	27.79	-9.45 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	27.87	28.36	1.72 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	23.06	24.17	4.57 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	18.96	20.60	7.94 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	24.07	25.87	6.94 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	22.27	23.87	6.71 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	19.55	21.13	7.49 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	24.07	25.87	6.94 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	22.27	23.87	6.71 %
BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	19.55	21.13	7.49 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	34.81	31.61	-10.13 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	33.13	29.67	-11.69 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	30.89	27.14	-13.79 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	37.03	34.25	-8.11 %

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BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	29.78	27.53	-8.18 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	26.98	28.20	4.31 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	25.89	27.33	5.29 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	18.17	19.78	8.13 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	26.81	28.05	4.42 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	25.89	27.33	5.29 %
BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	18.17	19.78	8.13 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	26.81	28.05	4.42 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	37.01	33.26	-11.29 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	29.79	25.92	-14.91 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	38.19	34.10	-12.00 %
Totals:	2015.45	725.59	719.51	
Average DFEE = 27.06 $kgCO_2/m^2$	% DFEE/TFEE	FAIL		
Average TFEE = 26.83 $kgCO_2/m^2$	-0.85 %			

Block Compliance Report - DPER

Block Reference: Block Q_27112024 Updates	Block Name: Block Q			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	71.46	73.31	2.52 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	83.06	81.08	-2.44 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	67.37	68.81	2.09 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	59.89	64.36	6.95 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	60.54	63.97	5.36 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	56.62	60.27	6.06 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	56.20	61.37	8.42 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	59.67	63.70	6.33 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	57.21	60.94	6.12 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	56.20	61.37	8.42 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	59.67	63.70	6.33 %

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BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	57.21	60.94	6.12 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	68.04	68.32	0.41 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	70.91	70.63	-0.40 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	68.07	68.10	0.04 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	70.14	71.38	1.74 %
BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	72.99	72.26	-1.01 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	57.39	63.45	9.55 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	57.01	62.77	9.18 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	56.12	59.46	5.62 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	57.04	63.12	9.63 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	57.01	62.77	9.18 %
BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	56.12	59.46	5.62 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	57.04	63.12	9.63 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	69.87	69.93	0.09 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	66.59	66.74	0.22 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	70.44	70.43	-0.01 %
Totals:	2015.45	1699.88	1775.76	
Average DPER = 62.49 $kgCO_2/m^2$	% DPER/TPER	PASS		
Average TPER = 65.46 $kgCO_2/m^2$	4.53 %			

APPENDIX B SAPS Compliance Be Green

12.13 Block ABC

Block Compliance

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Block Reference	Block ABC_Be Green 27	Issued on Date	01/12/2024
Block Name	Block ABC		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block ABC_Be Green 27	Block Name: Block ABC			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BA-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.88	14.84	60.38 %
BA-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.08	13.27	61.72 %
BA-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	5.53	13.43	58.82 %
BA-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.08	13.27	61.72 %
BA-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	5.33	13.43	60.31 %
BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	4.83	12.23	60.51 %
BA-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	5.88	14.41	59.20 %
BA-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	6.79	15.70	56.75 %
BB-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.37	13.87	61.28 %
BB-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.19	13.48	61.50 %
BB-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.18	13.46	61.52 %
BB-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.27	13.65	61.39 %
BB-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.57	13.87	59.84 %
BB-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.31	11.94	63.90 %
BB-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.30	11.92	63.93 %
BB-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.37	12.10	63.88 %
BB-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.57	13.87	59.84 %
BB-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.31	11.94	63.90 %
BB-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.30	11.92	63.93 %
BB-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.37	12.10	63.88 %
BB-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.57	13.87	59.84 %
BB-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.31	11.94	63.90 %

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BB-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.30	11.92	63.93 %
BB-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.37	12.10	63.88 %
BB-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	4.46	12.17	63.35 %
BB-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	4.43	12.01	63.11 %
BB-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	4.43	12.01	63.11 %
BB-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	4.43	12.03	63.18 %
BB-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	5.34	13.46	60.33 %
BB-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	5.28	13.27	60.21 %
BB-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	5.28	13.27	60.21 %
BB-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	5.28	13.29	60.27 %
BC-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.78	14.74	60.79 %
BC-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	5.21	13.25	60.68 %
BC-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.01	13.24	62.16 %
BC-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.27	11.69	63.47 %
BC-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.01	13.24	62.16 %
BC-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.27	11.69	63.47 %
BC-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.01	13.24	62.16 %
BC-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.27	11.69	63.47 %
BC-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	3.94	12.68	68.93 %
BC-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.58	12.13	62.24 %
BC-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	6.16	14.87	58.57 %
BC-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.48	13.38	66.52 %
BC-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.58	12.13	62.24 %
27 BA-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	6.56	14.96	56.15 %
27 BA-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	6.02	15.31	60.68 %
A 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	5.18	13.94	62.84 %
B 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	5.18	13.94	62.84 %
27 BA-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	5.53	13.43	58.82 %

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27 BA-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	5.27	14.06	62.52 %
A 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
B 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
27 BA-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	5.27	14.06	62.52 %
A 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
B 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
27 BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	5.27	14.06	62.52 %
A 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
B 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	3.83	11.54	66.81 %
A 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	4.97	14.62	66.01 %
B 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.67	16.08	64.74 %
27 BC-02-04 - 00001_Copy_Copy_Copy	82.00	4.79	14.93	67.92 %
A 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	4.25	13.13	67.63 %
B 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.02	14.61	65.64 %
27 BC-03-04 - 00001_Copy_Copy_Copy	82.00	5.11	15.44	66.90 %
Totals:	4526.54	319.63	855.82	
Average DER = 4.88 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 13.09 $kgCO_2/m^2$	62.70 %			

Block Compliance Report - DFEE

Block Reference: Block ABC_Be Green 27	**Block Name: Block ABC**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BA-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	33.04	30.85	-7.09 %
BA-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	21.20	23.43	9.53 %
BA-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	43.58	37.29	-16.86 %
BA-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	21.20	23.43	9.53 %
BA-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	41.48	37.29	-11.24 %
BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	35.29	31.11	-13.43 %

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BA-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	36.93	31.07	-18.83 %
BA-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	47.13	36.88	-27.78 %
BB-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	38.88	35.81	-8.58 %
BB-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	36.77	34.07	-7.92 %
BB-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	36.66	33.98	-7.89 %
BB-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	37.69	34.83	-8.21 %
BB-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	41.02	35.81	-14.55 %
BB-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.79	27.14	4.99 %
BB-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	25.69	27.06	5.07 %
BB-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.67	27.88	4.35 %
BB-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	25.74	27.07	4.92 %
BB-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	24.80	26.13	5.09 %
BB-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	24.80	26.12	5.05 %
BB-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	24.80	26.22	5.41 %
BB-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	36.64	32.88	-11.42 %
BB-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	35.48	31.83	-11.47 %
BB-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	35.48	31.82	-11.51 %

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BB-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	35.48	31.92	-11.16 %
BC-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	33.03	31.31	-5.50 %
BC-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.29	36.28	-8.30 %
BC-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	28.24	29.31	3.65 %
BC-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	28.24	29.31	3.65 %
BC-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	22.06	24.37	9.48 %
BC-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	28.24	29.31	3.65 %
BC-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	22.16	32.73	32.29 %
BC-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.22	24.05	3.45 %
BC-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	42.25	37.18	-13.64 %
BC-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	31.58	37.59	15.98 %
BC-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.22	24.05	3.45 %
27 BA-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	54.50	44.22	-23.26 %
27 BA-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	36.38	34.02	-6.93 %
A 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	39.28	34.97	-12.32 %
B 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	39.28	34.97	-12.32 %
27 BA-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	43.58	37.29	-16.86 %
27 BA-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	27.79	29.23	4.92 %
A 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
B 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
27 BA-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	27.79	29.23	4.92 %
A 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
B 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
27 BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	27.79	29.23	4.92 %

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A 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
B 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	21.89	24.03	8.91 %
A 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	30.10	37.32	19.35 %
B 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	30.76	37.04	16.95 %
27 BC-02-04 - 00001_Copy_Copy_Copy	82.00	34.02	43.41	21.63 %
A 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	19.88	30.56	34.94 %
B 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	20.64	30.33	31.95 %
27 BC-03-04 - 00001_Copy_Copy_Copy	82.00	37.63	45.71	17.67 %
Totals:	4526.54	1996.99	2003.67	
Average DFEE = 31.13 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 31.14 $kgCO_2/m^2$	0.04 %			

Block Compliance Report - DPER

Block Reference: Block ABC_Be Green 27	Block Name: Block ABC			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BA-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	62.61	80.42	22.15 %
BA-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	54.55	71.96	24.19 %
BA-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	58.07	71.99	19.34 %
BA-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	54.55	71.96	24.19 %
BA-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	56.10	71.99	22.07 %
BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	51.03	65.68	22.31 %
BA-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	62.42	77.80	19.77 %
BA-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	71.60	84.69	15.46 %
BB-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	56.77	74.51	23.81 %
BB-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	54.88	72.43	24.23 %
BB-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	54.79	72.32	24.24 %
BB-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	55.70	73.33	24.04 %
BB-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	58.73	74.51	21.18 %

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BB-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.01	64.14	28.27 %
BB-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.94	64.03	28.25 %
BB-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.63	65.02	28.28 %
BB-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	58.73	74.51	21.18 %
BB-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.01	64.14	28.27 %
BB-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.94	64.03	28.25 %
BB-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.63	65.02	28.28 %
BB-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	58.73	74.51	21.18 %
BB-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.01	64.14	28.27 %
BB-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.94	64.03	28.25 %
BB-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.63	65.02	28.28 %
BB-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	47.67	65.43	27.14 %
BB-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	47.40	64.59	26.61 %
BB-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	47.40	64.58	26.60 %
BB-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	47.40	64.69	26.73 %
BB-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.87	56.50	72.37	21.93 %
BB-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	55.90	71.36	21.66 %
BB-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	55.90	71.35	21.65 %
BB-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	69.00	55.90	71.47	21.79 %
BC-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	61.52	79.64	22.75 %
BC-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	54.91	71.06	22.73 %
BC-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.80	71.59	24.85 %
BC-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	45.41	62.67	27.54 %
BC-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.80	71.59	24.85 %
BC-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	45.41	62.67	27.54 %
BC-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.80	71.59	24.85 %
BC-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	45.41	62.67	27.54 %
BC-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	42.21	68.05	37.97 %

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BC-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.08	65.33	24.87 %
BC-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	65.09	80.05	18.69 %
BC-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	47.52	71.74	33.76 %
BC-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.08	65.33	24.87 %
27 BA-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	68.58	80.22	14.51 %
27 BA-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	63.95	82.80	22.77 %
A 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	54.71	75.05	27.10 %
B 27 BA-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	54.71	75.05	27.10 %
27 BA-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	87.00	58.07	71.99	19.34 %
27 BA-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	56.28	75.93	25.88 %
A 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
B 27 BA-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
27 BA-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	56.28	75.93	25.88 %
A 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
B 27 BA-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
27 BA-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	53.00	56.28	75.93	25.88 %
A 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
B 27 BA-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.10	41.16	62.13	33.75 %
A 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	52.81	78.68	32.88 %
B 27 BC-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	60.50	86.83	30.32 %
27 BC-02-04 - 00001_Copy_Copy_Copy	82.00	50.72	80.11	36.69 %
A 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	67.00	45.66	70.66	35.38 %
B 27 BC-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	53.93	78.93	31.67 %
27 BC-03-04 - 00001_Copy_Copy_Copy	82.00	53.96	82.87	34.89 %
Totals:	4526.54	3399.51	4605.76	
Average DPER = 51.90 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 70.43 kgCO₂/m²	26.30 %			

12.14 Block E

Block Compliance

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Block Reference	Block E_Be Green 27 U	Issued on Date	01/12/2024
Block Name	Block E		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block E_Be Green 27 U	Block Name: Block E			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BE-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	6.22	16.04	61.22 %
BE-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	5.31	14.31	62.89 %
BE-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	5.19	13.53	61.64 %
BE-01-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.67	14.48	60.84 %
BE-01-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.64	13.74	58.95 %
BE-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.41	15.60	71.73 %
BE-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.38	16.27	60.79 %
BE-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.85	11.92	42.53 %
BE-01-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	6.22	16.04	61.22 %
BE-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-02-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-02-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-03-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %

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BE-03-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.90	14.44	66.07 %
BE-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-04-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-04-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-05-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-05-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-06-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-06-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %

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BE-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.90	14.44	66.07 %
BE-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.42	12.75	65.33 %
BE-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.35	11.99	63.72 %
BE-07-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-07-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	3.84	14.12	72.80 %
BE-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	5.80	14.85	60.94 %
BE-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.06	10.40	41.73 %
BE-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.90	14.44	66.07 %
BE-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.81	13.38	64.05 %
BE-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.72	12.61	62.57 %
BE-08-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	5.00	13.06	61.72 %
BE-08-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	4.80	12.34	61.10 %
BE-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.11	14.74	72.12 %
BE-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.04	15.44	60.88 %
BE-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	6.23	11.02	43.47 %
BE-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.28	14.44	63.43 %
BE-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	4.68	12.73	63.24 %
BE-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	4.26	11.72	63.65 %
BE-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	4.50	12.41	63.74 %
BE-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	4.11	12.73	67.71 %
A 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	5.92	15.35	61.43 %
B 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	5.79	15.14	61.76 %

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27 BE-10-02_EP - 00001_Copy_Copy_Copy	103.00	4.88	12.66	61.45 %
Totals:	4652.60	400.14	1056.48	
Average DER = 4.96 kgCO₂/m²	% DER/TER	PASS		
Average TER = 13.33 kgCO₂/m²	62.81 %			

Block Compliance Report - DFEE

Block Reference: Block E_Be Green 27 U	Block Name: Block E			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BE-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	39.45	36.72	-7.42 %
BE-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	35.85	35.67	-0.53 %
BE-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	34.44	31.82	-8.25 %
BE-01-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	30.81	28.93	-6.51 %
BE-01-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	32.16	26.85	-19.81 %
BE-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	40.21	37.60	-6.93 %
BE-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	31.37	29.57	-6.09 %
BE-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	37.64	36.76	-2.39 %
BE-01-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	39.45	36.72	-7.42 %
BE-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-02-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-02-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %

Block Compliance

BE-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-03-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-03-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-04-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-04-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-05-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-05-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %

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BE-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-06-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-06-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	24.66	28.58	13.71 %
BE-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	23.33	24.81	5.96 %
BE-07-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-07-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	29.46	30.82	4.41 %
BE-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	20.74	22.82	9.13 %
BE-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	26.66	29.78	10.47 %
BE-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %
BE-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	21.37	29.42	27.38 %
BE-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	29.98	31.44	4.67 %
BE-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	28.58	27.62	-3.47 %
BE-08-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	20.36	22.28	8.64 %
BE-08-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	19.08	20.24	5.70 %
BE-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	34.80	33.67	-3.33 %
BE-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	25.94	25.63	-1.18 %
BE-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	29.40	32.64	9.91 %
BE-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	27.82	29.42	5.43 %

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BE-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	33.17	31.74	-4.51 %
BE-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	32.19	30.98	-3.92 %
BE-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	35.54	34.03	-4.44 %
BE-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	25.90	31.74	18.41 %
A 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	43.77	41.10	-6.51 %
B 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	42.31	39.88	-6.10 %
27 BE-10-02_EP - 00001_Copy_Copy_Copy	103.00	40.07	35.98	-11.34 %
Totals:	4652.60	2118.41	2227.53	
Average DFEE = 27.31 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 28.55 $kgCO_2/m^2$	4.35 %			

Block Compliance Report - DPER

Block Reference: Block E_Be Green 27 U	Block Name: Block E			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BE-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	65.92	87.32	24.51 %
BE-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	56.21	77.71	27.67 %
BE-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	55.02	73.51	25.15 %
BE-01-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	60.47	78.94	23.40 %
BE-01-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	60.08	74.94	19.83 %
BE-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	46.83	84.83	44.80 %
BE-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	68.28	88.99	23.27 %
BE-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	72.97	63.53	-14.86 %
BE-01-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	65.92	87.32	24.51 %
BE-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-02-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-02-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %

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BE-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %
BE-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-03-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-03-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %
BE-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	52.74	78.70	32.99 %
BE-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-04-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-04-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %
BE-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-05-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-05-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %

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BE-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-06-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-06-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %
BE-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	52.74	78.70	32.99 %
BE-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.24	69.30	31.83 %
BE-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	46.61	65.25	28.57 %
BE-07-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-07-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	41.00	76.83	46.64 %
BE-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	62.50	81.36	23.18 %
BE-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	65.01	55.38	-17.39 %
BE-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	52.74	78.70	32.99 %
BE-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	51.22	72.69	29.54 %
BE-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	50.26	68.56	26.69 %
BE-08-04_EP 15052024 - 00001_Copy_Copy_Copy	53.00	53.78	71.32	24.59 %
BE-08-05_EP 15052024 - 00001_Copy_Copy_Copy	56.00	51.64	67.39	23.37 %
BE-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	43.75	80.20	45.45 %
BE-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	64.81	84.50	23.30 %

Block Compliance

BE-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	41.00	66.74	58.69	-13.72 %
BE-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	56.50	78.70	28.21 %
BE-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	49.63	69.01	28.08 %
BE-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	45.03	63.36	28.93 %
BE-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	101.00	47.52	67.09	29.17 %
BE-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	84.80	43.86	69.01	36.44 %
A 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	62.33	83.24	25.12 %
B 27 BE-10-01_EP - 00001_Copy_Copy_Copy	73.00	61.09	82.11	25.60 %
27 BE-10-02_EP - 00001_Copy_Copy_Copy	103.00	51.28	68.39	25.02 %
Totals:	4652.60	4281.04	5745.43	
Average DPER = 52.99 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 72.49 kgCO₂/m²	26.89 %			

12.15 Block F

Block Compliance

elmhurst energy

Block Reference	Block F_Be Green 27 U	Issued on Date	01/12/2024
Block Name	Block F		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block F_Be Green 27 U	Block Name: Block F			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BF-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	5.22	13.70	61.90 %
27 BF-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.53	11.93	62.03 %
27 BF-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	4.53	11.93	62.03 %
27 BF-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.74	13.69	65.38 %
27 BF-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.15	65.02 %
27 BF-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.14	64.99 %
27 BF-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.15	65.02 %
27 BF-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.14	64.99 %
27 BF-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.15	65.02 %
27 BF-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.14	64.99 %
27 BF-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.15	65.02 %
27 BF-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	3.72	10.44	64.37 %
27 BF-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.25	12.14	64.99 %
Totals:	1690.00	82.78	231.93	

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Average DER = 4.13 $kgCO_2/m^2$	% DER/TER	PASS
Average TER = 11.58 $kgCO_2/m^2$	64.30 %	

Block Compliance Report - DFEE

Block Reference: Block F_Be Green 27 U	Block Name: Block F			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
27 BF-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	41.29	38.32	-7.74 %
27 BF-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	33.28	30.65	-8.56 %
27 BF-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	33.28	30.65	-8.56 %
27 BF-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	36.01	38.29	5.96 %
27 BF-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.35	3.45 %
27 BF-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.38	3.53 %
27 BF-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	22.61	23.90	5.40 %
27 BF-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	30.27	31.35	3.45 %
Totals:	1690.00	566.91	580.05	
Average DFEE = 28.28 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 28.94 $kgCO_2/m^2$	2.26 %			

Block Compliance

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Block Compliance Report - DPER

Block Reference: Block F_Be Green 27 U	Block Name: Block F			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BF-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	54.79	73.21	25.16 %
27 BF-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	47.77	63.72	25.03 %
27 BF-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	47.77	63.72	25.03 %
27 BF-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	49.97	73.18	31.72 %
27 BF-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.86	30.54 %
27 BF-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.83	30.51 %
27 BF-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.86	30.54 %
27 BF-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.83	30.51 %
27 BF-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.86	30.54 %
27 BF-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.83	30.51 %
27 BF-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.86	30.54 %
27 BF-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	86.00	39.66	55.70	28.80 %
27 BF-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	45.05	64.83	30.51 %
Totals:	1690.00	877.98	1238.19	
Average DPER = 43.85 $kgCO_2/m^2$	**% DPER/TPER**	PASS		
Average TPER = 61.83 $kgCO_2/m^2$	29.07 %			

12.16 Block G

Block Compliance

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Block Reference	Block G_Be Green 27 U	Issued on Date	01/12/2024
Block Name	Block G		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block G_Be Green 27 U	Block Name: Block G			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	6.27	15.82	60.37 %
BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.85	15.05	61.13 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	5.15	14.07	63.40 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.82	13.48	64.24 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	4.63	12.16	61.92 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.62	16.92	60.87 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.47	14.91	63.31 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	5.34	14.26	62.55 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.13	13.55	62.14 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	5.34	14.26	62.55 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.13	13.55	62.14 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	5.34	14.26	62.55 %

Block Compliance

BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.13	13.55	62.14 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.70	13.11	64.15 %
BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.21	13.70	61.97 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.70	13.11	64.15 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.21	13.70	61.97 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.70	13.11	64.15 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.21	13.70	61.97 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.70	13.11	64.15 %

Block Compliance

BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.21	13.70	61.97 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	4.41	12.48	64.66 %
BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.59	13.36	65.64 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	4.47	12.36	63.83 %
BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.14	13.24	61.18 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	4.47	12.36	63.83 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.14	13.24	61.18 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.20	12.06	65.17 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	3.80	10.68	64.42 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.97	15.46	61.38 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	5.44	13.67	60.20 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	5.77	14.52	60.26 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.82	13.26	63.65 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	4.63	11.93	61.19 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.62	16.69	60.34 %
Totals:	4880.00	345.09	939.03	
Average DER = 4.68 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 12.84 $kgCO_2/m^2$	63.56 %			

Block Compliance Report - DFEE

Block Reference: Block G_Be Green 27 U	**Block Name: Block G**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	42.63	38.21	-11.58 %

Block Compliance

BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	33.22	30.79	-7.91 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	32.55	32.32	-0.71 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	30.86	32.69	5.62 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	37.17	34.09	-9.02 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.04	31.75	-7.22 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	39.57	39.05	-1.33 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	31.76	31.19	-1.84 %
BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	22.33	23.90	6.58 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %

Block Compliance

BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	29.64	30.64	3.26 %
BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	22.58	24.06	6.13 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	21.79	25.38	14.17 %

Block Compliance

BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	29.19	32.11	9.08 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	34.09	33.59	-1.50 %
BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	18.83	20.72	9.09 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	34.09	33.59	-1.50 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	18.83	20.72	9.09 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	21.96	26.26	16.40 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	27.23	27.57	1.21 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.54	25.08	6.15 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	44.77	39.40	-13.62 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	30.36	26.83	-13.15 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	30.86	31.69	2.63 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	37.17	33.08	-12.37 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.04	30.70	-10.88 %
Totals:	4880.00	1915.64	2005.90	
Average DFEE = 27.53 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 28.72 $kgCO_2/m^2$	4.15 %			

Block Compliance Report - DPER

Block Reference: Block G_Be Green 27 U	Block Name: Block G			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BG-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	66.29	86.13	23.03 %

Block Compliance

BG-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	62.38	82.17	24.08 %
BG-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	54.78	76.55	28.44 %
BG-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	51.27	73.28	30.04 %
BG-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	48.74	65.80	25.93 %
BG-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.73	92.64	23.65 %
BG-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	57.81	80.97	28.60 %
BG-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	56.91	77.71	26.77 %
BG-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	55.11	74.13	25.66 %
BG-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	56.91	77.71	26.77 %
BG-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	55.11	74.13	25.66 %
BG-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	56.91	77.71	26.77 %
BG-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	55.11	74.13	25.66 %
BG-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	50.03	71.30	29.83 %

Block Compliance

BG-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.93	74.92	25.35 %
BG-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	50.03	71.30	29.83 %
BG-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.93	74.92	25.35 %
BG-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	50.03	71.30	29.83 %
BG-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.93	74.92	25.35 %
BG-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	50.03	71.30	29.83 %
BG-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.93	74.92	25.35 %
BG-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	66.00	47.36	67.99	30.34 %
BG-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	48.96	72.63	32.59 %
BG-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	47.24	66.94	29.43 %

Block Compliance

BG-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.33	72.64	23.83 %
BG-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	47.24	66.94	29.43 %
BG-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	55.33	72.64	23.83 %
BG-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.01	65.61	31.40 %
BG-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	40.38	57.87	30.22 %
BG-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.22	84.74	24.22 %
BG-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	97.00	57.10	74.00	22.84 %
BG-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	50.00	61.65	79.57	22.52 %
BG-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	51.27	72.08	28.87 %
BG-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	103.00	48.74	64.56	24.50 %
BG-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.73	91.39	22.61 %
Totals:	4880.00	3687.26	5117.02	
Average DPER = 49.93 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 69.89 kgCO₂/m²	28.56 %			

12.17 Block H

Block Compliance

elmhurst energy

Block Reference	Block H_Be Green 27 U	Issued on Date	01/12/2024
Block Name	Block H		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block H_Be Green 27 U	Block Name: Block H			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BH-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	4.96	12.91	61.58 %
27 BH-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	5.40	13.65	60.44 %
27 BH-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.91	12.85	61.79 %
27 BH-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	4.65	12.06	61.44 %
27 BH-01-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	80.00	5.27	13.66	61.42 %
27 BH-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	3.99	11.31	64.72 %
27 BH-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	4.51	12.10	62.73 %
27 BH-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.22	11.45	63.14 %
27 BH-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	3.82	10.54	63.76 %
27 BH-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.07	11.06	63.20 %
27 BH-02-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	5.74	14.79	61.19 %
27 BH-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	4.06	11.16	63.62 %
27 BH-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.20	11.35	63.00 %
27 BH-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	3.93	10.89	63.91 %
27 BH-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.06	11.09	63.39 %
27 BH-05-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	4.32	12.16	64.47 %
27 BH-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	4.95	12.50	60.40 %
27 BH-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.96	12.62	60.70 %
27 BH-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	4.77	12.17	60.81 %
27 BH-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.84	12.35	60.81 %
27 BH-08-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	5.28	13.50	60.89 %
27 BH-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	3.99	11.31	64.72 %

Block Compliance

elmhurst energy

27 BH-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	4.51	12.10	62.73 %
27 BH-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.22	11.45	63.14 %
27 BH-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	3.82	10.54	63.76 %
27 BH-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.07	11.06	63.20 %
27 BH-03-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	4.91	13.30	63.08 %
27 BH-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	3.99	11.31	64.72 %
27 BH-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	4.51	12.10	62.73 %
27 BH-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.22	11.45	63.14 %
27 BH-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	3.82	10.54	63.76 %
27 BH-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.07	11.06	63.20 %
27 BH-04-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	4.91	13.30	63.08 %
27 BH-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	4.06	11.16	63.62 %
27 BH-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.20	11.35	63.00 %
27 BH-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	3.93	10.89	63.91 %
27 BH-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.06	11.09	63.39 %
27 BH-06-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	4.32	12.16	64.47 %
27 BH-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	4.06	11.16	63.62 %
27 BH-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	4.20	11.35	63.00 %
27 BH-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	3.93	10.89	63.91 %
27 BH-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	4.06	11.09	63.39 %
27 BH-07-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	4.32	12.16	64.47 %
Totals:	3412.00	189.09	508.99	
Average DER = 4.37 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 11.78 $kgCO_2/m^2$	62.89 %			

Block Compliance Report - DFEE

Block Reference: Block H_Be Green 27 U	Block Name: Block H			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
27 BH-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	38.09	35.01	-8.79 %

Block Compliance

27 BH-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	36.27	32.35	-12.14 %
27 BH-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	30.99	30.01	-3.27 %
27 BH-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	32.91	30.28	-8.68 %
27 BH-01-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	80.00	38.22	35.54	-7.54 %
27 BH-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	21.04	23.61	10.89 %
27 BH-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	22.29	22.64	1.53 %
27 BH-02-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	36.57	34.84	-4.95 %
27 BH-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	21.65	23.40	7.45 %
27 BH-05-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	27.53	28.96	4.92 %
27 BH-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	34.37	29.93	-14.82 %
27 BH-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	31.76	28.17	-12.74 %
27 BH-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	34.17	30.64	-11.51 %
27 BH-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	32.43	29.16	-11.21 %
27 BH-08-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	38.83	34.97	-11.05 %
27 BH-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	21.04	23.61	10.89 %
27 BH-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	22.29	22.64	1.53 %

Block Compliance

27 BH-03-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	25.96	28.06	7.49 %
27 BH-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	26.64	27.81	4.22 %
27 BH-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	25.06	25.31	1.00 %
27 BH-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	21.04	23.61	10.89 %
27 BH-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	21.98	23.37	5.97 %
27 BH-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	22.29	22.64	1.53 %
27 BH-04-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	25.96	28.06	7.49 %
27 BH-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	21.65	23.40	7.45 %
27 BH-06-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	27.53	28.96	4.92 %
27 BH-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	22.77	23.79	4.29 %
27 BH-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	20.78	22.33	6.93 %
27 BH-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	23.34	24.86	6.10 %
27 BH-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	21.65	23.40	7.45 %
27 BH-07-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	27.53	28.96	4.92 %
Totals:	3412.00	1135.76	1145.24	
Average DFEE = 26.42 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 26.63 $kgCO_2/m^2$	0.78 %			

Block Compliance Report - DPER

Block Reference: Block H_Be Green 27 U	Block Name: Block H			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BH-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	52.27	69.59	24.89 %
27 BH-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	57.17	73.87	22.61 %
27 BH-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	52.14	69.50	24.98 %
27 BH-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	49.18	65.06	24.41 %
27 BH-01-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	80.00	55.71	73.72	24.43 %

Block Compliance

27 BH-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	42.47	60.97	30.34 %
27 BH-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	48.30	65.55	26.32 %
27 BH-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.26	61.92	26.91 %
27 BH-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	40.92	56.89	28.07 %
27 BH-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.67	59.96	27.17 %
27 BH-02-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	60.92	80.13	23.97 %
27 BH-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	43.50	60.48	28.08 %
27 BH-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.15	61.50	26.59 %
27 BH-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	41.99	58.77	28.55 %
27 BH-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.45	59.93	27.50 %
27 BH-05-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	46.11	65.67	29.79 %
27 BH-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	52.44	67.69	22.53 %
27 BH-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	52.75	68.34	22.81 %
27 BH-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	50.43	65.66	23.20 %
27 BH-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	51.30	66.73	23.12 %
27 BH-08-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	55.72	72.87	23.54 %
27 BH-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	42.47	60.97	30.34 %
27 BH-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	48.30	65.55	26.32 %
27 BH-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.26	61.92	26.91 %
27 BH-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	40.92	56.89	28.07 %
27 BH-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.67	59.96	27.17 %
27 BH-03-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	52.52	72.09	27.15 %
27 BH-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	42.47	60.97	30.34 %
27 BH-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	70.00	48.30	65.55	26.32 %
27 BH-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.26	61.92	26.91 %
27 BH-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	90.00	40.92	56.89	28.07 %
27 BH-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.67	59.96	27.17 %
27 BH-04-06_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	60.00	52.52	72.09	27.15 %

Block Compliance

27 BH-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	43.50	60.48	28.08 %
27 BH-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.15	61.50	26.59 %
27 BH-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	41.99	58.77	28.55 %
27 BH-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.45	59.93	27.50 %
27 BH-06-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	46.11	65.67	29.79 %
27 BH-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	82.00	43.50	60.48	28.08 %
27 BH-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	72.00	45.15	61.50	26.59 %
27 BH-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	88.00	41.99	58.77	28.55 %
27 BH-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	80.00	43.45	59.93	27.50 %
27 BH-07-05_Copy_Copy_Copy - 00002_Copy_Copy_Copy_Copy	81.00	46.11	65.67	29.79 %
Totals:	3412.00	2017.53	2752.26	
Average DPER = 46.62 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 63.68 kgCO₂/m²	26.78 %			

12.18 Block J1J2

Block Compliance

elmhurst energy

Block Reference	Block J1J2_Be Green 27	Issued on Date	01/12/2024
Block Name	Block J1J2		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block J1J2_Be Green 27	Block Name: Block J1J2			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy	97.30	4.18	12.46	66.45 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy	135.60	3.40	10.24	66.80 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	5.67	14.77	61.61 %
BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.89	15.01	60.76 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	5.67	14.77	61.61 %
BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.89	15.01	60.76 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %

Block Compliance

elmhurst energy

BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	5.67	14.77	61.61 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.89	15.01	60.76 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	5.67	14.77	61.61 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.89	15.01	60.76 %
BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %

Block Compliance

BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %

Block Compliance

BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.45	12.69	64.93 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	5.73	14.77	61.21 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.00	12.90	61.24 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	4.25	11.22	62.12 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	4.47	12.00	62.75 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.99	13.06	61.79 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	3.44	12.86	73.25 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.76	11.08	66.06 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.56	65.62 %
BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.48	65.36 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.64	10.53	65.43 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.76	11.08	66.06 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.56	65.62 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.48	65.36 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.64	10.53	65.43 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.76	11.08	66.06 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.56	65.62 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.63	10.48	65.36 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.64	10.53	65.43 %
BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	4.74	12.47	61.99 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	4.52	11.91	62.05 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	4.48	11.77	61.94 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	4.51	11.85	61.94 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy	86.64	4.92	13.74	64.19 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy	122.50	4.20	12.03	65.09 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy	79.50	4.12	11.75	64.94 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy	87.10	4.05	11.37	64.38 %

Block Compliance

BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy	117.17	3.93	11.31	65.25 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	4.15	11.21	62.98 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.71	11.55	59.22 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	5.40	13.27	59.31 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.24	11.44	62.94 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	4.15	11.21	62.98 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.71	11.55	59.22 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	5.40	13.27	59.31 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.24	11.44	62.94 %
BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	4.15	11.21	62.98 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	4.71	11.55	59.22 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	5.40	13.27	59.31 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.24	11.44	62.94 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	5.10	12.53	59.30 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	5.19	12.69	59.10 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	5.89	14.49	59.35 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.07	12.70	60.08 %
Totals:	8239.81	571.70	1556.41	
Average DER = 4.46 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 12.32 $kgCO_2/m^2$	63.85 %			

Block Compliance Report - DFEE

Block Reference: Block J1J2_Be Green 27	**Block Name: Block J1J2**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy	97.30	29.70	32.51	8.63 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy	135.60	28.25	28.49	0.87 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %

Block Compliance

BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	20.88	22.38	6.73 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.12	21.07	9.25 %

Block Compliance

elmhurst energy

BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %

Block Compliance

elmhurst energy

BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	26.38	27.77	4.99 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	19.92	21.61	7.85 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	18.00	19.53	7.82 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	16.81	18.31	8.17 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	19.08	20.51	6.98 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	19.12	20.73	7.77 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	29.58	29.04	-1.88 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %

Block Compliance

BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	25.76	26.55	2.96 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.21	24.20	4.09 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.13	24.18	4.38 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	23.19	24.14	3.95 %
BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	37.53	32.79	-14.45 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	34.65	30.28	-14.45 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	34.03	30.00	-13.43 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	34.40	30.11	-14.26 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy	86.64	35.62	38.46	7.40 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy	122.50	35.88	38.24	6.17 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy	79.50	21.82	27.52	20.70 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy	87.10	23.74	27.68	14.23 %
BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy	117.17	31.29	34.45	9.18 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %

Block Compliance

BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	27.79	29.03	4.27 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	15.28	16.97	9.91 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	16.81	18.55	9.37 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.64	25.05	5.63 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	38.98	34.99	-11.39 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	25.64	22.50	-13.91 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	27.81	24.41	-13.93 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	34.43	30.80	-11.76 %
Totals:	8239.81	2778.61	2907.64	
Average DFEE = 23.74 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 24.64 $kgCO_2/m^2$	3.68 %			

Block Compliance Report - DPER

Block Reference: Block J1J2_Be Green 27	Block Name: Block J1J2			
Property-Assessment Reference	**Floor area (m^2)**	**DPER ($kWh/m^2/yr$)**	**TPER ($kWh/m^2/yr$)**	**% DPER/TPER**
BJ1-00-01_EP 150502024 - 00001_Copy_Copy_Copy	97.30	44.35	67.98	34.76 %
BJ1-00-02_EP 150502024 - 00001_Copy_Copy_Copy	135.60	36.00	55.81	35.50 %
BJ1-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	61.06	81.44	25.02 %
BJ1-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	82.86	23.41 %
BJ1-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	61.06	81.44	25.02 %

Block Compliance

BJ1-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	82.86	23.41 %
BJ1-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	61.06	81.44	25.02 %
BJ1-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	82.86	23.41 %
BJ1-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	43.00	61.06	81.44	25.02 %
BJ1-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	82.86	23.41 %
BJ1-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %

Block Compliance

BJ1-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %

Block Compliance

BJ1-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-10-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-10-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	47.53	69.47	31.58 %
BJ1-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	42.00	61.68	81.51	24.33 %
BJ1-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.81	71.20	24.42 %
BJ1-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	68.00	45.72	61.81	26.03 %
BJ1-11-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	48.08	66.05	27.21 %
BJ1-11-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	53.68	71.94	25.38 %
BJ1-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	76.00	36.61	70.36	47.97 %
BJ1-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	40.08	60.53	33.78 %
BJ1-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.75	57.74	32.89 %
BJ1-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.80	57.24	32.22 %
BJ1-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.87	57.51	32.41 %
BJ1-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	40.08	60.53	33.78 %
BJ1-13-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.75	57.74	32.89 %
BJ1-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.80	57.24	32.22 %
BJ1-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.87	57.51	32.41 %
BJ1-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	40.08	60.53	33.78 %
BJ1-14-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.75	57.74	32.89 %
BJ1-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.80	57.24	32.22 %
BJ1-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	38.87	57.51	32.41 %

Block Compliance

BJ1-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	50.02	67.98	26.42 %
BJ1-15-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	47.78	64.97	26.46 %
BJ1-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	47.37	64.16	26.17 %
BJ1-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	47.67	64.61	26.22 %
BJ2-00-01_EP 150502024 - 00001_Copy_Copy_Copy	86.64	52.03	73.55	29.26 %
BJ2-00-02_EP 150502024 - 00001_Copy_Copy_Copy	122.50	44.22	64.03	30.94 %
BJ2-00-03_EP 150502024 - 00001_Copy_Copy_Copy	79.50	44.14	62.86	29.78 %
BJ2-00-04_EP 150502024 - 00001_Copy_Copy_Copy	87.10	43.26	60.78	28.83 %
BJ2-00-05_EP 150502024 - 00001_Copy_Copy_Copy	117.17	41.50	60.12	30.97 %
BJ2-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	44.10	59.76	26.20 %
BJ2-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	50.77	62.19	18.36 %
BJ2-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	58.13	71.73	18.96 %
BJ2-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.36	61.21	25.89 %
BJ2-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	44.10	59.76	26.20 %
BJ2-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	50.77	62.19	18.36 %
BJ2-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	58.13	71.73	18.96 %
BJ2-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.36	61.21	25.89 %
BJ2-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	44.10	59.76	26.20 %
BJ2-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	50.77	62.19	18.36 %
BJ2-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	58.13	71.73	18.96 %
BJ2-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	45.36	61.21	25.89 %
BJ2-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	53.75	66.89	19.64 %
BJ2-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	54.00	55.51	68.32	18.75 %
BJ2-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	44.00	63.08	78.33	19.47 %
BJ2-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	53.66	67.98	21.07 %
Totals:	8239.81	6128.18	8521.76	
Average DPER = 47.68 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 67.36 kgCO₂/m²	29.21 %			

12.19 Block K

Block Compliance

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Block Reference	Block K_Be Green 27 U	Issued on Date	01/12/2024
Block Name	Block K		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block K_Be Green 27 U	Block Name: Block K			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	5.42	14.19	61.80 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.54	14.32	61.31 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	13.82	67.08 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	4.60	12.22	62.36 %
BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.77	11.35	66.78 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.45	14.09	61.32 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.24	16.01	61.02 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	5.05	13.42	62.37 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	3.95	11.26	64.92 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.65	63.56 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	5.09	13.93	63.46 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	3.74	10.70	65.05 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	3.95	11.26	64.92 %

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BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.65	63.56 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	5.09	13.93	63.46 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.85	10.76	64.22 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	3.95	11.26	64.92 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.66	63.59 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.61	12.65	63.56 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	5.09	13.93	63.46 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.85	10.76	64.22 %
BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	4.82	12.57	61.65 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	5.44	13.96	61.03 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	5.44	13.96	61.03 %

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BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	124.00	3.73	10.33	63.89 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	126.00	4.30	11.32	62.01 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.85	10.76	64.22 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.85	10.76	64.22 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.63	12.62	63.31 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.55	12.30	63.01 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.85	10.76	64.22 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.39	9.79	65.37 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	4.87	12.60	61.35 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.20	11.86	64.59 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	5.42	13.94	61.12 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.54	14.09	60.68 %

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BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	118.00	3.52	9.99	64.76 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	145.00	3.75	10.88	65.53 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	148.00	3.26	10.24	68.16 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.92	12.85	61.71 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	3.82	11.92	67.95 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.78	14.50	60.14 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	5.05	13.18	61.68 %
Totals:	5923.00	391.05	1056.25	
Average DER = 4.41 kgCO₂/m²	% DER/TER	PASS		
Average TER = 12.06 kgCO₂/m²	63.42 %			

Block Compliance Report - DFEE

Block Reference: Block K_Be Green 27 U	Block Name: Block K			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	32.95	30.36	-8.52 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	29.78	27.13	-9.74 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	28.94	28.83 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	34.27	31.60	-8.43 %
BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	25.59	28.67	10.74 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	29.00	26.33	-10.15 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	28.58	26.40	-8.28 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	34.40	31.66	-8.66 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %

Block Compliance

BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	23.36	24.71	5.47 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	23.00	24.40	5.77 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.05	24.45	5.71 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	23.08	24.48	5.72 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	29.79	30.34	1.83 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %

Block Compliance

BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	34.28	30.41	-12.75 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	34.31	30.43	-12.74 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	34.31	30.43	-12.74 %
BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	124.00	30.91	28.68	-7.78 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	126.00	37.29	33.98	-9.72 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %

Block Compliance

BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	21.40	23.09	7.31 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	20.60	21.97	6.23 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	23.45	24.80	5.43 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	19.78	21.62	8.49 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.73	19.25	7.88 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	23.06	24.53	6.00 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	32.95	29.22	-12.75 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	29.78	26.04	-14.37 %
BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	118.00	28.10	26.35	-6.61 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	145.00	34.28	35.33	2.96 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	148.00	29.20	32.18	9.27 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	18.65	20.14	7.36 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	27.72	32.27	14.10 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	17.09	19.15	10.76 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	34.40	30.55	-12.60 %
Totals:	5923.00	1994.81	2067.73	
Average DFEE = 24.25 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 25.07 kgCO₂/m²	3.28 %			

Block Compliance Report - DPER

Block Reference: Block K_Be Green 27 U	Block Name: Block K			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BK-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	57.59	77.17	25.37 %
BK-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	59.15	78.14	24.30 %
BK-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	75.13	34.89 %
BK-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	48.59	66.04	26.42 %

Block Compliance

BK-01-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	40.14	61.36	34.58 %
BK-01-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	58.28	76.89	24.20 %
BK-01-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	66.83	87.67	23.77 %
BK-01-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	53.59	72.83	26.42 %
BK-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	42.27	61.01	30.72 %
BK-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.43	68.74	28.09 %
BK-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	54.24	75.78	28.42 %
BK-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	93.00	39.92	57.84	30.98 %
BK-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-02-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-02-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-02-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-02-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %
BK-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	42.27	61.01	30.72 %
BK-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.43	68.74	28.09 %
BK-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	54.24	75.78	28.42 %
BK-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	41.13	58.21	29.34 %
BK-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-03-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-03-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %

Block Compliance

BK-03-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-03-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %
BK-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	42.27	61.01	30.72 %
BK-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.41	68.84	28.22 %
BK-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.43	68.74	28.09 %
BK-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	63.00	54.24	75.78	28.42 %
BK-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	41.13	58.21	29.34 %
BK-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-04-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-04-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-04-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-04-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %
BK-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	83.00	50.98	68.08	25.12 %
BK-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	57.75	75.81	23.82 %
BK-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	57.75	75.81	23.82 %
BK-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	124.00	39.36	55.60	29.21 %
BK-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	126.00	45.13	60.87	25.86 %
BK-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	41.13	58.21	29.34 %
BK-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-05-10_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-05-11_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-05-12_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-05-13_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %

Block Compliance

BK-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %
BK-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	41.13	58.21	29.34 %
BK-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	49.65	68.72	27.75 %
BK-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	48.92	66.99	26.97 %
BK-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	41.13	58.21	29.34 %
BK-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.33	52.99	31.44 %
BK-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	52.45	68.92	23.90 %
BK-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.96	64.44	30.23 %
BK-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	57.59	75.84	24.06 %
BK-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	59.15	76.88	23.06 %
BK-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	118.00	37.36	53.90	30.69 %
BK-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	145.00	39.37	58.40	32.59 %
BK-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	148.00	34.37	54.94	37.44 %
BK-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.03	70.21	24.47 %
BK-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	100.00	40.60	64.32	36.88 %
BK-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	62.31	79.54	21.66 %
BK-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	53.59	71.52	25.07 %
Totals:	5923.00	4187.18	5746.33	
Average DPER = 47.15 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 65.48 kgCO₂/m²	28.00 %			

12.20 Block L

Block Compliance

elmhurst energy

Block Reference	Block L_Be Green_27	Issued on Date	01/12/2024
Block Name	Block L		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block L_Be Green_27	Block Name: Block L			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	5.02	13.50	62.81 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.64	17.36	61.75 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.89	13.03	62.47 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	4.08	11.29	63.86 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.54	10.76	57.81 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	5.00	12.41	59.71 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	5.12	13.01	60.65 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	5.12	13.01	60.65 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.89	13.36	63.40 %
27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.64	17.36	61.75 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %

Block Compliance

elmhurst energy

27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %

Block Compliance

27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	4.05	11.88	65.91 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.90	15.77	62.59 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.03	11.44	64.77 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.60	10.31	65.08 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	4.37	10.19	57.11 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.25	10.93	61.12 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %

Block Compliance

27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	4.32	11.49	62.40 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	4.28	11.91	64.06 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	5.02	13.25	62.11 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.64	17.11	61.19 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.64	17.11	61.19 %
27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	4.89	12.78	61.74 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	4.43	11.64	61.94 %
Totals:	5735.00	394.70	1055.24	
Average DER = 4.47 kgCO₂/m²	**% DER/TER**	PASS		
Average TER = 12.02 kgCO₂/m²	62.82 %			

Block Compliance Report - DFEE

Block Reference: Block L_Be Green_27	Block Name: Block L			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	37.93	35.03	-8.28 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	32.79	-6.58 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	33.70	30.71	-9.73 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	27.83	26.51	-4.96 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	16.24	16.32	0.47 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	31.54	28.29	-11.47 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	32.49	30.98	-4.86 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	32.49	30.98	-4.86 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	28.02	32.04	12.54 %
27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	32.79	-6.58 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %

Block Compliance

27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %

Block Compliance

27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %

Block Compliance

27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	26.28	27.71	5.18 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	23.39	25.51	8.30 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	22.10	23.44	5.69 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	20.76	22.05	5.85 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	11.81	13.45	12.17 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	20.60	21.43	3.84 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	21.39	23.97	10.76 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	18.12	25.41	28.70 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	37.93	33.90	-11.89 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	31.66	-10.40 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	34.95	31.66	-10.40 %
27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	33.70	29.58	-13.93 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	32.08	28.06	-14.33 %
Totals:	5735.00	1948.48	2078.51	
Average DFEE = 22.96 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 24.43 kgCO₂/m²	6.02 %			

Block Compliance Report - DPER

Block Reference: Block L_Be Green_27	**Block Name: Block L**

Block Compliance

Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
27 BL-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	53.04	73.15	27.49 %
27 BL-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.87	94.97	25.38 %
27 BL-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	51.84	70.88	26.86 %
27 BL-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	43.43	61.30	29.15 %
27 BL-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	48.73	57.82	15.72 %
27 BL-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	53.16	66.47	20.02 %
27 BL-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	54.41	69.71	21.95 %
27 BL-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	54.41	69.71	21.95 %
27 BL-02-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	52.10	71.61	27.24 %
27 BL-05-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.87	94.97	25.38 %
27 BL-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-03-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %

Block Compliance

27 BL-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-04-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-06-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %

Block Compliance

27 BL-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-07-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-08-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	43.20	64.42	32.94 %
27 BL-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.46	86.40	26.55 %
27 BL-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	43.16	62.32	30.74 %
27 BL-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	38.56	56.03	31.18 %
27 BL-09-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	60.00	47.10	54.74	13.96 %
27 BL-09-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	45.65	58.51	21.98 %
27 BL-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-09-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	71.00	46.37	61.56	24.68 %
27 BL-09-10_EP 15052024 - 00001_Copy_Copy_Copy	67.00	46.06	63.81	27.82 %
27 BL-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	85.00	53.04	71.80	26.13 %
27 BL-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.87	93.61	24.29 %
27 BL-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.87	93.61	24.29 %

Block Compliance

elmhurst energy

27 BL-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	78.00	51.84	69.54	25.45 %
27 BL-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	46.92	63.14	25.69 %
Totals:	5735.00	4230.13	5712.54	
Average DPER = 47.86 kgCO₂/m²	% DPER/TPER	PASS		
Average TPER = 64.99 kgCO₂/m²	26.36 %			

12.21 Block M

Block Compliance

elmhurst energy

Block Reference	Block M_Be Green_27 U	Issued on Date	01/12/2024
Block Name	Block M		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block M_Be Green_27 U | **Block Name: Block M**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	4.71	12.79	63.17 %
BM-02-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	5.55	14.74	62.35 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.47	14.88	63.24 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.14	13.68	62.43 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	4.58	12.36	62.94 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	49.00	6.21	16.08	61.38 %
BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.49	16.83	61.44 %
BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	6.58	17.04	61.38 %
BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.86	14.65	66.83 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.73	11.13	66.49 %
BM-03-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.10	13.07	68.63 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.73	11.13	66.49 %
BM-04-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %

Block Compliance

BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.10	13.07	68.63 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.73	11.13	66.49 %
BM-05-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.10	13.07	68.63 %
BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.73	11.13	66.49 %
BM-06-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.10	13.07	68.63 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	3.73	11.13	66.49 %
BM-07-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %

Block Compliance

BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.10	13.07	68.63 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-08-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.89	13.30	63.23 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.91	15.30	61.37 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.95	15.50	61.61 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-09-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-09-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-09-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-10-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.51	10.81	67.53 %
BM-10-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-10-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %

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BM-09-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-09-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-09-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-10-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	37.42	59.34	36.94 %
BM-10-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-10-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-11-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-11-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-11-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-12-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %

Block Compliance

BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-11-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-11-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-11-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-12-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.62	13.19	64.97 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-12-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-12-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-13-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	13.13	65.12 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-13-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-13-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.23	13.48	68.62 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-14-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	13.13	65.12 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %

Block Compliance

BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-14-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-14-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.17	13.34	68.74 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-15-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	13.13	65.12 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-15-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-15-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.17	13.34	68.74 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	3.96	11.68	66.10 %
BM-16-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	13.13	65.12 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-16-06_Copy - 00001_Copy	75.00	4.36	12.29	64.52 %
BM-16-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.17	13.34	68.74 %
BM-17-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	3.88	11.48	66.20 %
BM-17-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	13.13	65.12 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	4.98	13.41	62.86 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	4.34	12.20	64.43 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	3.72	10.81	65.59 %
BM-17-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-17-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %

Block Compliance

BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.17	13.34	68.74 %
BM-18-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	3.88	11.48	66.20 %
BM-18-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	4.58	14.46	68.33 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	5.47	14.65	62.66 %
BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	5.14	13.45	61.78 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	4.58	12.12	62.21 %
BM-18-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	4.36	12.29	64.52 %
BM-18-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.69	12.61	62.81 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	4.41	13.66	67.72 %
BM-19-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	3.88	11.48	66.20 %
BM-19-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	3.88	11.38	65.91 %
BM-19-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	3.57	10.45	65.84 %
BM-20-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	3.88	12.87	69.85 %
BM-20-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	3.88	11.38	65.91 %
BM-20-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	3.57	10.45	65.84 %
Totals:	10732.00	676.53	1910.17	
Average DER = 4.39 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 12.53 $kgCO_2/m^2$	64.95 %			

Block Compliance Report - DFEE

Block Reference: Block M_Be Green_27 U	**Block Name: Block M**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	36.69	33.63	-9.11 %
BM-02-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	39.22	36.40	-7.75 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	27.03	28.46	5.03 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	34.45	32.12	-7.25 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	33.74	31.10	-8.48 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	49.00	35.51	33.11	-7.26 %

Block Compliance

BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	31.05	29.18	-6.43 %
BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	31.95	30.20	-5.79 %
BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	31.87	36.47	12.61 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-03-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-04-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-05-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %

Block Compliance

BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-06-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	24.83	26.18	5.16 %
BM-07-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	20.93	29.38	28.76 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-08-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %

Block Compliance

BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.90	25.08	4.70 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.80	22.06	10.24 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	20.63	23.05	10.48 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-09-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-09-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-09-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-09-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-09-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-09-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-09-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-10-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-10-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-10-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-10-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-10-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-10-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-10-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-11-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %

Block Compliance

BM-11-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-11-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-11-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-11-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-11-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-12-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	28.09	29.39	4.43 %
BM-12-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-12-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-12-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-12-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-12-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-13-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-13-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-13-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	22.93	31.25	26.62 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-14-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-14-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %

Block Compliance

BM-14-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	21.71	30.46	28.71 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-15-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-15-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-15-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	21.71	30.46	28.71 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	26.09	27.41	4.84 %
BM-16-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-16-06_Copy - 00001_Copy	75.00	25.00	25.79	3.08 %
BM-16-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	21.71	30.46	28.71 %
BM-17-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %
BM-17-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	28.84	4.91 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	16.37	21.51	23.89 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	23.86	25.41	6.12 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	22.60	24.07	6.12 %
BM-17-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-17-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	21.71	30.46	28.71 %
BM-18-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %

Block Compliance

BM-18-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	27.43	34.87	21.34 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	27.03	27.37	1.25 %
BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	34.45	31.08	-10.86 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	33.74	30.01	-12.43 %
BM-18-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	25.00	25.79	3.08 %
BM-18-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	20.27	21.53	5.86 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	25.92	32.24	19.61 %
BM-19-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	25.81	27.12	4.83 %
BM-19-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	28.66	29.00	1.18 %
BM-19-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	24.29	24.43	0.57 %
BM-20-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	25.81	33.33	22.56 %
BM-20-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	28.66	29.00	1.18 %
BM-20-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	24.29	24.43	0.57 %
Totals:	10732.00	3546.26	3898.96	
Average DFEE = 24.25 $kgCO_2/m^2$	% DFEE/TFEE	PASS		
Average TFEE = 26.48 $kgCO_2/m^2$	8.44 %			

Block Compliance Report - DPER

Block Reference: Block M_Be Green_27 U	Block Name: Block M			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BM-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	49.72	69.96	28.93 %
BM-02-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	58.70	80.73	27.29 %
BM-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	58.52	82.04	28.67 %
BM-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	54.51	74.98	27.30 %
BM-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	48.46	67.70	28.42 %
BM-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	49.00	66.06	88.43	25.30 %
BM-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	69.43	92.90	25.26 %
BM-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	70.34	94.07	25.23 %

Block Compliance

BM-02-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	51.62	80.20	35.64 %
BM-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	39.85	61.04	34.71 %
BM-03-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-03-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	44.04	71.74	38.61 %
BM-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	39.85	61.04	34.71 %
BM-04-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-04-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	44.04	71.74	38.61 %
BM-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	39.85	61.04	34.71 %
BM-05-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-05-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	44.04	71.74	38.61 %

Block Compliance

BM-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	39.85	61.04	34.71 %
BM-06-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-06-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-06-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-06-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-06-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-06-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	44.04	71.74	38.61 %
BM-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	99.00	39.85	61.04	34.71 %
BM-07-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-07-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-07-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-07-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-07-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-07-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-07-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-07-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	44.04	71.74	38.61 %
BM-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-08-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	49.30	72.39	31.90 %
BM-08-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-08-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-08-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-08-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.39	73.22	28.45 %
BM-08-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.69	84.68	24.79 %
BM-08-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	64.04	85.77	25.34 %
BM-08-09_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %

Block Compliance

BM-12-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-12-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-12-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-13-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-13-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	72.08	32.16 %
BM-13-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-13-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-13-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-13-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-13-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-13-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	45.35	73.90	38.63 %
BM-14-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-14-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	72.08	32.16 %
BM-14-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-14-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-14-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-14-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-14-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-14-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.73	73.18	38.88 %
BM-15-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %
BM-15-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	72.08	32.16 %
BM-15-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-15-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-15-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-15-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-15-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-15-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.73	73.18	38.88 %
BM-16-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	92.00	42.23	64.03	34.05 %

Block Compliance

BM-16-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	72.08	32.16 %
BM-16-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-16-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-16-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-16-06_Copy - 00001_Copy	75.00	46.65	67.51	30.90 %
BM-16-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-16-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.73	73.18	38.88 %
BM-17-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	41.35	62.92	34.28 %
BM-17-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	72.08	32.16 %
BM-17-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	53.71	74.10	27.52 %
BM-17-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	46.39	67.04	30.80 %
BM-17-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	39.77	59.34	32.98 %
BM-17-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-17-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-17-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	44.73	73.18	38.88 %
BM-18-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	41.35	62.92	34.28 %
BM-18-02_EP 15052024 - 00001_Copy_Copy_Copy	72.00	48.90	79.22	38.27 %
BM-18-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	51.00	58.52	80.78	27.56 %
BM-18-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	74.00	54.51	73.74	26.08 %
BM-18-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	95.00	48.46	66.40	27.02 %
BM-18-06_EP 15052024 - 00001_Copy_Copy_Copy	75.00	46.65	67.51	30.90 %
BM-18-07_EP 15052024 - 00001_Copy_Copy_Copy	59.00	50.38	69.64	27.66 %
BM-18-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	73.00	47.14	74.90	37.06 %
BM-19-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	41.35	62.92	34.28 %
BM-19-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	41.24	62.25	33.75 %
BM-19-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	38.11	57.30	33.49 %
BM-20-01_EP 15052024 - 00001_Copy_Copy_Copy	95.00	41.35	70.39	41.26 %
BM-20-02_EP 15052024 - 00001_Copy_Copy_Copy	103.00	41.24	62.25	33.75 %

Block Compliance

BM-20-03_EP 15052024 - 00001_Copy_Copy_Copy	105.00	38.11	57.30	33.49 %
Totals:	10732.00	7243.75	10505.61	
Average DPER = 46.98 kgCO₂/m²	% DPER/TPER	PASS		
Average TPER = 68.86 kgCO₂/m²	31.77 %			

12.22 Block N

Block Compliance

Block Reference	Block N_Be Green_27 U	Issued on Date	01/12/2024
Block Name	Block N		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block N_Be Green_27 U	Block Name: Block N			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	6.28	16.15	61.11 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	4.00	89.81	164.89	45.53 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	5.35	13.93	61.59 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	5.40	13.80	60.87 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-02-03_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.87	12.97	62.45 %
BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.73	12.34	61.67 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.62	13.98	66.95 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	5.43	14.07	61.41 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.98	13.98	64.38 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	5.09	13.26	61.61 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.87	12.97	62.45 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.73	12.34	61.67 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.62	12.47	62.95 %
BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.65	12.56	62.98 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.43	12.47	64.47 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	4.13	11.67	64.61 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %

Block Compliance

BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.87	12.97	62.45 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.73	12.34	61.67 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.62	12.47	62.95 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.65	12.56	62.98 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.43	12.47	64.47 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	4.13	11.67	64.61 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.87	12.97	62.45 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.73	12.34	61.67 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	5.38	13.74	60.84 %
BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	5.43	13.84	60.77 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	4.98	13.74	63.76 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	5.09	13.01	60.88 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.87	12.97	62.45 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	4.73	12.34	61.67 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.02	12.90	61.09 %
BN-07-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.05	13.47	62.51 %
BN-07-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.81	12.78	62.36 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-08-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.05	13.47	62.51 %
BN-08-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.81	12.78	62.36 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %

Block Compliance

BN-09-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.05	13.47	62.51 %
BN-09-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.81	12.78	62.36 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-10-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.05	13.47	62.51 %
BN-10-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.81	12.78	62.36 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	5.37	14.55	63.09 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.73	13.08	56.19 %
BN-11-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.05	13.47	62.51 %
BN-11-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	4.81	12.78	62.36 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	6.28	15.90	60.50 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	5.94	13.98	57.51 %
BN-12-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	5.83	14.69	60.31 %
BN-12-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	5.57	14.00	60.21 %
Totals:	3578.00	414.71	1009.22	
Average DER = 5.19 $kgCO_2/m^2$	**% DER/TER**	PASS		
Average TER = 13.52 $kgCO_2/m^2$	61.60 %			

Block Compliance Report - DFEE

Block Reference: Block N_Be Green_27 U	**Block Name: Block N**			
Property-Assessment Reference	**Floor area (m^2)**	**DFEE ($kWh/m^2/yr$)**	**TFEE ($kWh/m^2/yr$)**	**% DFEE/TFEE**
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	38.66	35.59	-8.62 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	4.00	506.47	351.83	-43.95 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	29.95	28.88	-3.73 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	29.76	27.26	-9.16 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-02-03_EP 15052024 - 00001_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %

Block Compliance

BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	21.17	29.81	28.99 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	32.90	30.36	-8.35 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	26.89	29.81	9.81 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	37.74	34.21	-10.31 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	21.17	22.81	7.19 %
BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	21.80	23.39	6.78 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	16.32	22.81	28.47 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	26.23	26.99	2.79 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	21.17	22.81	7.19 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	21.80	23.39	6.78 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	16.32	22.81	28.47 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	26.23	26.99	2.79 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	32.26	28.72	-12.32 %

Block Compliance

BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	32.90	29.27	-12.39 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	26.89	28.72	6.37 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	37.74	33.10	-14.04 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	23.00	24.44	5.91 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	18.79	20.34	7.61 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	17.68	19.75	10.47 %
BN-07-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-07-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-08-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-08-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-09-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-09-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-10-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %
BN-10-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	26.96	28.25	4.58 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	9.85	11.25	12.46 %
BN-11-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	24.08	25.54	5.70 %

Block Compliance

BN-11-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	22.16	23.32	4.99 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	38.66	34.45	-12.20 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	19.26	16.27	-18.39 %
BN-12-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	34.62	31.17	-11.07 %
BN-12-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	32.81	29.00	-13.14 %
Totals:	3578.00	1965.80	1862.23	
Average DFEE = 24.53 kgCO₂/m²	% DFEE/TFEE	PASS		
Average TFEE = 25.09 kgCO₂/m²	2.24 %			

Block Compliance Report - DPER

Block Reference: Block N_Be Green_27 U	Block Name: Block N			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BN-01-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	66.71	88.27	24.43 %
BN-01-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	4.00	951.40	906.95	-4.90 %
BN-01-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	56.99	76.08	25.09 %
BN-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	57.60	75.54	23.75 %
BN-02-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-02-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-02-03_EP 15052024 - 00001_Copy_Copy_Copy	59.00	52.15	70.92	26.47 %
BN-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	50.81	67.69	24.94 %
BN-02-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.61	76.30	34.98 %
BN-02-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	57.67	76.80	24.91 %
BN-02-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	53.15	76.30	30.34 %
BN-02-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	53.67	72.10	25.56 %
BN-03-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-03-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-03-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.15	70.92	26.47 %
BN-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	50.81	67.69	24.94 %
BN-03-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.61	68.16	27.22 %

Block Compliance

BN-03-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.86	68.67	27.39 %
BN-03-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	47.67	68.16	30.06 %
BN-03-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	44.04	63.58	30.73 %
BN-04-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-04-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-04-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.15	70.92	26.47 %
BN-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	50.81	67.69	24.94 %
BN-04-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.61	68.16	27.22 %
BN-04-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	49.86	68.67	27.39 %
BN-04-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	47.67	68.16	30.06 %
BN-04-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	44.04	63.58	30.73 %
BN-05-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-05-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-05-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.15	70.92	26.47 %
BN-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	50.81	67.69	24.94 %
BN-05-05_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	57.23	75.02	23.71 %
BN-05-06_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	57.67	75.52	23.64 %
BN-05-07_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	62.00	53.15	75.02	29.15 %
BN-05-08_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	89.00	53.67	70.79	24.18 %
BN-06-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-06-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-06-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	52.15	70.92	26.47 %
BN-06-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	59.00	50.81	67.69	24.94 %
BN-07-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-07-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	54.10	70.97	23.77 %
BN-07-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	54.05	73.68	26.64 %
BN-07-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	51.64	69.91	26.13 %
BN-08-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %

Block Compliance

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BN-08-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-08-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	54.05	73.68	26.64 %
BN-08-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	51.64	69.91	26.13 %
BN-09-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-09-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-09-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	54.05	73.68	26.64 %
BN-09-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	51.64	69.91	26.13 %
BN-10-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-10-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-10-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	54.05	73.68	26.64 %
BN-10-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	51.64	69.91	26.13 %
BN-11-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	57.50	79.68	27.84 %
BN-11-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	61.73	72.26	14.57 %
BN-11-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	54.05	73.68	26.64 %
BN-11-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	51.64	69.91	26.13 %
BN-12-01_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	52.00	66.71	86.93	23.26 %
BN-12-02_Copy_Copy_Copy - 00001_Copy_Copy_Copy_Copy	40.00	63.88	77.07	17.11 %
BN-12-03_EP 15052024 - 00001_Copy_Copy_Copy	56.00	61.89	80.25	22.88 %
BN-12-04_EP 15052024 - 00001_Copy_Copy_Copy	59.00	59.21	76.48	22.58 %
Totals:	3578.00	4430.49	5531.67	
Average DPER = 55.53 kgCO₂/m²	**% DPER/TPER**	PASS		
Average TPER = 73.98 kgCO₂/m²	24.94 %			

12.23 Block P

Block Compliance

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Block Reference	Block P_Be Green_27 U	Issued on Date	01/12/2024
Block Name	Block P		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block P_Be Green_27 U | **Block Name: Block P**

Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	5.38	14.40	62.64 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	5.75	13.07	56.01 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	4.56	12.07	62.22 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	4.66	12.32	62.18 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	3.14	10.88	71.14 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	4.44	11.54	61.53 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %

Block Compliance

Totals:	4326.00	198.91	567.38	
Average DER = 3.91 kgCO₂/m²	% DER/TER	PASS		
Average TER = 11.22 kgCO₂/m²	65.13 %			

Block Compliance Report - DFEE

Block Reference: Block P_Be Green_27 U	Block Name: Block P			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	24.65	26.59	7.28 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	45.12	31.72	-42.25 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	36.47	32.90	-10.83 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	33.97	30.86	-10.07 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	26.22	23.32	-12.41 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	12.81	18.20	29.62 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %

Block Compliance

BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	4.37	11.88	63.22 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	3.58	10.41	65.61 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	2.98	10.84	72.51 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	4.40	11.72	62.46 %
BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	5.56	14.00	60.29 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	4.51	11.73	61.55 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	4.69	12.04	61.05 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	4.94	13.25	62.72 %

Block Compliance

BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	30.60	27.71	-10.40 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	24.88	25.80	3.55 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	22.68	22.96	1.23 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	14.98	19.64	23.72 %

Block Compliance

BP-05-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-05-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-05-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-06-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-06-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-06-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-06-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-06-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-07-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-07-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-07-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-07-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-07-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-08-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-08-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-08-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-08-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-08-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-09-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-09-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-09-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-09-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-09-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-10-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-10-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-10-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-10-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-10-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %

Block Compliance

BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	36.54	31.84	-14.75 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	35.98	31.87	-12.89 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	32.40	28.71	-12.84 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	24.11	25.23	4.47 %
Totals:	4326.00	1252.43	1256.52	
Average DFEE = 25.58 kgCO₂/m²	% DFEE/TFEE	FAIL		
Average TFEE = 25.48 kgCO₂/m²	-0.41 %			

Block Compliance Report - DPER

Block Reference: Block P_Be Green_27 U	Block Name: Block P			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BP-01-05_Copy_Copy - 00001_Copy_Copy	51.00	57.74	78.92	26.84 %
BP-02-01_Copy_Copy - 00001_Copy_Copy	84.00	60.55	71.33	15.11 %
BP-02-02_Copy_Copy - 00001_Copy_Copy	105.00	48.07	65.41	26.51 %
BP-02-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	93.00	49.33	67.02	26.40 %
BP-02-04_Copy_Copy - 00001_Copy_Copy	84.00	33.52	59.14	43.32 %
BP-02-05_Copy_Copy - 00001_Copy_Copy	63.00	47.89	63.37	24.43 %
BP-03-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-03-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-03-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-03-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-03-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-04-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-04-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-04-03_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %
BP-04-04_Copy_Copy - 00001_Copy_Copy	84.00	31.93	58.93	45.82 %
BP-04-05_Copy_Copy - 00001_Copy_Copy	63.00	47.44	64.18	26.08 %
BP-05-01_Copy_Copy - 00001_Copy_Copy	84.00	46.41	64.52	28.07 %
BP-05-02_Copy_Copy - 00001_Copy_Copy	105.00	38.18	56.41	32.32 %

Block Compliance

BP-11-01_Copy_Copy - 00001_Copy_Copy	67.00	58.89	76.31	22.83 %
BP-11-02_Copy_Copy - 00001_Copy_Copy	105.00	47.59	63.49	25.04 %
BP-11-03_Copy_Copy_Copy - 00001_Copy_Copy_Copy	86.00	49.69	65.40	24.02 %
BP-11-04_Copy_Copy - 00001_Copy_Copy	60.00	52.94	72.63	27.11 %
Totals:	4326.00	2123.33	3086.62	
Average DPER = 41.74 kgCO₂/m²	% DPER/TPER	PASS		
Average TPER = 61.01 kgCO₂/m²	31.57 %			

12.24 Block Q

Block Compliance

elmhurst energy

Block Reference	Block Q_Be Green_27 U	Issued on Date	01/12/2024
Block Name	Block Q		
Calculation Type	New Build (As Designed)		
Assessor Details	Mr. Mohamed Mekkawy	Assessor ID	Q340-0001
Client	Berkeley Homes, Berkeley Homes, 21 Leman St, London , E1 8NZ		

Block Compliance Report - DER

Block Reference: Block Q_Be Green_27 U	Block Name: Block Q			
Property-Assessment Reference	Floor area (m^2)	DER ($kgCO_2/m^2$)	TER ($kgCO_2/m^2$)	% DER/TER
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	5.23	13.35	60.82 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	6.00	14.78	59.40 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	4.91	12.34	60.21 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	4.39	11.63	62.25 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	4.44	11.54	61.53 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	4.19	10.79	61.17 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	4.13	11.08	62.73 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	4.38	11.48	61.85 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	4.22	10.92	61.36 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	4.13	11.08	62.73 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	4.38	11.48	61.85 %
BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	4.22	10.92	61.36 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	4.97	12.35	59.76 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	5.16	12.74	59.50 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	4.95	12.22	59.49 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	5.11	12.90	60.39 %
BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	5.29	13.06	59.49 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	4.20	11.45	63.32 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	4.17	11.32	63.16 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	4.16	10.63	60.87 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	4.17	11.39	63.39 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	4.17	11.32	63.16 %

Block Compliance

elmhurst energy

BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	4.16	10.63	60.87 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	4.17	11.39	63.39 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	5.09	12.64	59.73 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	4.85	11.95	59.41 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	5.13	12.73	59.70 %
Totals:	2015.45	124.37	320.11	
Average DER = 4.57 $kgCO_2/m^2$	% DER/TER	PASS		
Average TER = 11.80 $kgCO_2/m^2$	61.24 %			

Block Compliance Report - DFEE

Block Reference: Block Q_Be Green_27 U	Block Name: Block Q			
Property-Assessment Reference	Floor area (m^2)	DFEE ($kWh/m^2/yr$)	TFEE ($kWh/m^2/yr$)	% DFEE/TFEE
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	21.04	23.85	11.77 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	33.12	31.02	-6.76 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	30.41	27.79	-9.45 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	27.87	28.36	1.72 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	23.06	24.17	4.57 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	18.96	20.60	7.94 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	24.07	25.87	6.94 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	22.27	23.87	6.71 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	19.55	21.13	7.49 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	24.07	25.87	6.94 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	22.27	23.87	6.71 %
BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	19.55	21.13	7.49 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	34.81	31.61	-10.13 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	33.13	29.67	-11.69 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	30.89	27.14	-13.79 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	37.03	34.25	-8.11 %

Block Compliance

BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	29.78	27.53	-8.18 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	26.98	28.20	4.31 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	25.89	27.33	5.29 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	18.17	19.78	8.13 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	26.81	28.05	4.42 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	25.89	27.33	5.29 %
BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	18.17	19.78	8.13 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	26.81	28.05	4.42 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	37.01	33.26	-11.29 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	29.79	25.92	-14.91 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	38.19	34.10	-12.00 %
Totals:	2015.45	725.59	719.51	
Average DFEE = 27.06 kgCO₂/m²	% DFEE/TFEE	FAIL		
Average TFEE = 26.83 kgCO₂/m²	-0.85 %			

Block Compliance Report - DPER

Block Reference: Block Q_Be Green_27 U	Block Name: Block Q			
Property-Assessment Reference	Floor area (m^2)	DPER ($kWh/m^2/yr$)	TPER ($kWh/m^2/yr$)	% DPER/TPER
BQ-01-03_Copy_Copy - 00001_Copy_Copy	51.00	56.20	72.03	21.98 %
BQ-01-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	51.00	63.93	79.63	19.72 %
BQ-01-05_Copy_Copy - 00001_Copy_Copy	71.65	52.23	66.26	21.17 %
BQ-02-03_Copy_Copy - 00001_Copy_Copy	81.87	46.71	62.12	24.81 %
BQ-02-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.20	47.55	61.79	23.05 %
BQ-02-05_Copy_Copy - 00001_Copy_Copy	71.65	45.02	57.94	22.30 %
BQ-03-03_Copy_Copy - 00001_Copy_Copy	81.67	44.11	59.19	25.48 %
BQ-03-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	46.93	61.47	23.65 %
BQ-03-05_Copy_Copy - 00001_Copy_Copy	70.80	45.38	58.62	22.59 %
BQ-04-03_Copy_Copy - 00001_Copy_Copy	81.67	44.11	59.19	25.48 %
BQ-04-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	46.93	61.47	23.65 %

Block Compliance

BQ-04-05_Copy_Copy - 00001_Copy_Copy	70.80	45.38	58.62	22.59 %
BQ-05-03_Copy_Copy - 00001_Copy_Copy	81.67	52.57	66.02	20.37 %
BQ-05-04_Copy_Copy_Copy - 00001_Copy_Copy_Copy	70.32	54.81	68.25	19.69 %
BQ-05-05_Copy_Copy - 00001_Copy_Copy	70.80	52.72	65.59	19.62 %
BQ-02-01_Copy_Copy - 00001_Copy_Copy	83.00	53.99	68.97	21.72 %
BQ-02-02_Copy_Copy - 00001_Copy_Copy	59.00	56.41	70.19	19.63 %
BQ-02-06_Copy_Copy - 00001_Copy_Copy	84.98	44.75	61.14	26.81 %
BQ-03-01_Copy_Copy - 00001_Copy_Copy	83.42	44.55	60.48	26.34 %
BQ-03-02_Copy_Copy - 00001_Copy_Copy	71.99	44.76	57.12	21.64 %
BQ-03-06_Copy_Copy - 00001_Copy_Copy	85.50	44.49	60.82	26.85 %
BQ-04-01_Copy_Copy - 00001_Copy_Copy	83.42	44.55	60.48	26.34 %
BQ-04-02_Copy_Copy - 00001_Copy_Copy	71.99	44.76	57.12	21.64 %
BQ-04-06_Copy_Copy - 00001_Copy_Copy	85.50	44.49	60.82	26.85 %
BQ-05-01_Copy_Copy - 00001_Copy_Copy	83.42	53.79	67.55	20.37 %
BQ-05-02_Copy_Copy - 00001_Copy_Copy	71.99	51.70	64.20	19.47 %
BQ-05-06_Copy_Copy - 00001_Copy_Copy	85.50	54.15	68.04	20.41 %
Totals:	2015.45	1326.97	1715.12	
Average DPER = 48.78 kgCO₂/m²	% DPER/TPER	PASS		
Average TPER = 63.19 kgCO₂/m²	22.81 %			

APPENDIX C Non-Residential Commercial BRUKLs-Be Lean

12.25 Block ABC

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

ABC Be Lean Commercial — As designed

Date: Wed Nov 27 16:19:57 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 1269.97

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	5.42	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	4.4	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	58.97	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	47.39	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000000_W-1
Floors	0.18	0.11	0.11	00000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	00000000_C
Windows** and roof windows	1.6	1.3	1.3	00000000_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
A-00-RET-01	120	85	1.765
B-00-Comm-01	120	85	1.765
B-00-RET-01	120	85	1.765
B-00-RET-03	120	85	1.765
B-00-RET-02	120	85	1.765
B-00-RET-04	120	85	1.765
C-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
A-00-RET-01	NO (-43.2%)	NO
B-00-Comm-01	NO (-50.2%)	NO
B-00-RET-01	NO (-34%)	NO
B-00-RET-03	NO (-30.4%)	NO
B-00-RET-02	NO (-31.1%)	NO
B-00-RET-04	NO (-39.1%)	NO
C-00-RET-01	NO (-64%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1270	1270
External area [m²]	2443.4	2443.4
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	897.23	762.41
Average U-value [W/m²K]	0.37	0.31
Alpha value* [%]	48.89	36.74

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	8.43	5.33
Cooling	4.73	6.87
Auxiliary	6.87	11.5
Lighting	11.31	15.63
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**31.94**	**39.93**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	152.84	159.44
Primary energy [kWh_{PE}/m^2]	47.39	58.97
Total emissions [kg/m²]	4.4	5.42

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	81.9	71	8.4	4.7	6.9	2.7	4.16	2.64	6
	Notional	50.7	108.8	5.3	6.9	11.5	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.26 Block D

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

D Be Lean Commercial — As designed

Date: Wed Nov 27 17:42:37 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 357.3

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	3.42	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	2.82	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	37.44	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	30.53	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	D000001D_W-1
Floors	0.18	0.11	0.11	D0000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	D0000051_C
Windows** and roof windows	1.6	1.3	1.3	D000001D_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
D-01-Comm-Office Space	120	-	-
D-02-Comm-Office Space	120	-	-
D-03-Comm-Office Space	120	-	-
D-04-Comm-Office Space	120	-	-
D-05-Comm-Office Space	120	-	-
D-00-Comm-Office Space	120	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
D-01-Comm-Office Space	NO (-65.8%)	YES
D-02-Comm-Office Space	NO (-65.8%)	YES
D-03-Comm-Office Space	NO (-65.8%)	YES
D-04-Comm-Office Space	NO (-65.8%)	YES
D-05-Comm-Office Space	NO (-70%)	YES
D-00-Comm-Office Space	NO (-39.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	2032	2032
External area [m²]	2026.8	2026.8
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	1041.9	899.62
Average U-value [W/m²K]	0.51	0.44
Alpha value* [%]	24.1	18.81

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
100	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	3.77	2.07
Cooling	4	5.61
Auxiliary	5.75	7.77
Lighting	6.11	8.95
Hot water	1.01	1.01
Equipment*	42.19	42.19
TOTAL**	**20.64**	**25.42**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	96.57	108.65
Primary energy [kWh_{PE}/m²]	30.53	37.44
Total emissions [kg/m²]	2.82	3.42

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	36.6	60	3.8	4	5.8	2.7	4.16	2.64	6
	Notional	19.7	88.9	2.1	5.6	7.8	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.27 Block E

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

E Be LeanCommercial — As designed

Date: Fri Nov 29 17:44:24 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 346.48

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	11.28	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	9.11	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	122.78	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	98.31	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000003_W-1
Floors	0.18	0.11	0.11	00000003_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	00000003_C
Windows** and roof windows	1.6	1.3	1.3	00000003_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
E-00-F&B	120	85	1.765
E-00-Office-01	120	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
E-00-F&B	NO (-40.4%)	NO
E-00-Office-01	NO (-55%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	346.5	346.5
External area [m^2]	796.3	796.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	333.19	264.19
Average U-value [W/m^2K]	0.42	0.33
Alpha value* [%]	48.32	32.23

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
53	**Restaurants and Cafes/Drinking Establishments/Takeaways**
47	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	15.15	7.26
Cooling	12.17	13.49
Auxiliary	5.48	18.68
Lighting	10.6	16.46
Hot water	22.89	27.29
Equipment*	80.97	80.97
TOTAL**	**66.3**	**83.18**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	329.65	282.65
Primary energy [kWh_{PE}/m^2]	98.31	122.78
Total emissions [kg/m^2]	9.11	11.28

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	147.2	182.5	15.2	12.2	5.5	2.7	4.16	2.64	6
	Notional	69	213.6	7.3	13.5	15.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.28 Block F

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

F Be Lean Commercial — As designed

Date: Mon Mar 17 09:29:55 2025

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.2

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.27

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 208.16

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	10.46	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	8.24	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	114.33	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	89.58	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	F0000000_W-1
Floors	0.18	0.11	0.11	F0000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	L0000002_C
Windows** and roof windows	1.6	1.3	1.3	F0000000_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
F-00-Retail-01	120	85	1.765
L00-F&B Restaurant	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
F-00-Retail-01	NO (-40.3%)	NO
L00-F&B Restaurant	NO (-56.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	208.2	208.2
External area [m^2]	432.6	432.6
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	217.08	162.14
Average U-value [W/m^2K]	0.5	0.37
Alpha value* [%]	33.78	27.94

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	9.15	4.55
Cooling	6.77	10.42
Auxiliary	9.42	17.27
Lighting	4.62	8.36
Hot water	30.67	37.01
Equipment*	48.61	48.61
TOTAL**	**60.63**	**77.6**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	190.28	208.32
Primary energy [kWh_{PE}/m^2]	89.58	114.33
Total emissions [kg/m^2]	8.24	10.46

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	88.9	101.4	9.1	6.8	9.4	2.7	4.16	2.64	6
	Notional	43.2	165.1	4.5	10.4	12.7	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.29 Block G

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

G Be Lean Commercial As designed

Date: Fri Nov 29 17:37:57 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 438.09

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	10.48	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	8.49	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	114.48	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	92.92	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000006E_W1
Floors	0.18	0.11	0.11	C000006E_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	C000006E_C
Windows** and roof windows	1.6	1.3	1.3	C000006E_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
G-00-Office-01	120	-	-
G-00-RET-02	120	85	1.765
G-00-F&B-03	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
G-00-Office-01	NO (-61.3%)	YES
G-00-RET-02	NO (-69.7%)	NO
G-00-F&B-03	NO (-68.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	438.1	438.1
External area [m^2]	898.3	898.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	218.11	250.81
Average U-value [W/m^2K]	0.24	0.28
Alpha value* [%]	36.03	23.3

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
40	**Retail/Financial and Professional Services**
47	**Restaurants and Cafes/Drinking Establishments/Takeaways**
14	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	4	3.46
Cooling	15.55	13.86
Auxiliary	6.09	17.7
Lighting	17.47	19.01
Hot water	19.99	23.68
Equipment*	67.43	67.43
TOTAL**	**63.1**	**77.7**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	271.93	252.39
Primary energy [kWh_{PE}/m^2]	92.92	114.48
Total emissions [kg/m^2]	8.49	10.48

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	38.9	233	4	15.5	6.1	2.7	4.16	2.64	6
	Notional	32.9	219.5	3.5	13.9	15.4	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.30 Block H

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

H Be Lean Commercial As designed

Date: Thu Nov 28 11:42:36 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 240.58

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	13.06	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	10.73	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	142.49	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	116.67	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	H0000008_W3
Floors	0.18	0.11	0.11	H0000008_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	H0000164_C
Windows** and roof windows	1.6	1.3	1.3	H0000008_W3_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
H-00-RET-02	120	85	1.765
H-00-F&B Restaurant	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
H-00-RET-02	NO (-74.2%)	NO
H-00-F&B Restaurant	NO (-59.6%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	240.6	240.6
External area [m²]	493.1	493.1
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	169.95	168.03
Average U-value [W/m²K]	0.34	0.34
Alpha value* [%]	48.73	34.13

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
35	**Retail/Financial and Professional Services**
65	**Restaurants and Cafes/Drinking Establishments/Takeaways**
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	10.27	6.12
Cooling	13.53	15.07
Auxiliary	13.15	21.37
Lighting	14.43	20.71
Hot water	27.59	33.37
Equipment*	81.87	81.87
TOTAL**	**78.96**	**96.64**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	302.5	296.91
Primary energy [kWh_{PE}/m²]	116.67	142.49
Total emissions [kg/m²]	10.73	13.06

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	99.7	202.8	10.3	13.5	13.1	2.7	4.16	2.64	6
	Notional	58.1	238.8	6.1	15.1	17.4	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.31 Block J1J2

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

J1J2 Be Lean Commercial

As designed

Date: Fri Nov 29 16:09:40 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certification tool

Calculation engine: SBEM
Calculation engine version: v6.1.e.1
Interface to calculation engine: Virtual Environment
Interface to calculation engine version: v7.0.26
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m^2]: 93.04

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	5.89	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	4.94	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	63.9	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	53.82	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	J1000001_W-1
Floors	0.18	0.11	0.11	J1000001_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	J1000001_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	7	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
J1-00-Retail-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
J1-00-Retail-01	YES (+29.3%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	93	93
External area [m^2]	198.3	198.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	101.39	84.27
Average U-value [W/m^2K]	0.51	0.42
Alpha value* [%]	35.8	30.16

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	10.17	9.37
Cooling	12.01	7.48
Auxiliary	5.73	11.3
Lighting	7.95	14.45
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**36.46**	**43.19**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	308.94	207.46
Primary energy [kWh_{PE}/m^2]	53.82	63.9
Total emissions [kg/m^2]	4.94	5.89

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	98.8	210.1	10.2	12	5.7	2.7	4.86	2.64	7
	Notional	89	118.4	9.4	7.5	11.3	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.32 Block K

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

K Be Lean Commercial As designed

Date: Thu Nov 28 15:37:50 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 510.35

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	4.78	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	3.95	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	52.22	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	42.81	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000006B_W1
Floors	0.18	0.11	0.11	C000006B_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	K0000000_C
Windows** and roof windows	1.6	1.3	1.3	C000006B_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
K-00-Office-02	120	-	-
K-01-Leisure	120	85	1.765
K-00-Leisure-01	120	85	1.765
K-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
K-00-Office-02	NO (-65.1%)	YES
K-01-Leisure	NO (-63.2%)	NO
K-00-Leisure-01	NO (-56.4%)	NO
K-00-RET-01	NO (-60.6%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1020.7	1020.7
External area [m²]	1202.8	1202.8
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	532.47	441.93
Average U-value [W/m²K]	0.44	0.37
Alpha value* [%]	46.03	37.1

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
94	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
6	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	5.04	2.58
Cooling	4.54	6.48
Auxiliary	6.8	10.69
Lighting	11.91	15.06
Hot water	0.62	0.62
Equipment*	21.53	21.53
TOTAL**	**28.91**	**35.43**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	117	127.19
Primary energy [kWh_{PE}/m²]	42.81	52.22
Total emissions [kg/m²]	3.95	4.78

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	49	68	5	4.5	6.8	2.7	4.16	2.64	6
	Notional	24.5	102.7	2.6	6.5	10.7	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.33 Block L

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block L_Be Lean As designed

Date: Sun Dec 01 21:30:15 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 18.49

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	6.61	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	5.46	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	71.35	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	59.21	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	L0000075_W1
Floors	0.18	0.11	0.11	L0000075_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	L0000075_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
L-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
L-00-RET-01	YES (+1.2%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	18.5	18.5
External area [m²]	44.7	44.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	22.53	20.29
Average U-value [W/m²K]	0.5	0.45
Alpha value* [%]	36.3	26.66

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	12.89	12.17
Cooling	12.34	7.11
Auxiliary	5.95	10.89
Lighting	8.24	17.34
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**40.02**	**48.1**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	310.51	228.22
Primary energy [kWh_{PE}/m²]	59.21	71.35
Total emissions [kg/m²]	5.46	6.61

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	124.1	186.4	12.9	12.3	6	2.68	4.19	2.64	6
	Notional	115.6	112.6	12.2	7.1	10.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.34 Block N

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

N Be Lean Commercial — As designed

Date: Thu Nov 28 12:52:35 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 99.19

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	5.55	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	4.36	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	60.7	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	48.14	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	N000005A_W1
Floors	0.18	0.11	0.11	N000005A_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	N000005A_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
N-00-Retail-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
N-00-Retail-01	YES (+40.4%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	99.2	99.2
External area [m^2]	165.8	165.8
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	60.89	59.4
Average U-value [W/m^2K]	0.37	0.36
Alpha value* [%]	36.15	24.23

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	3.78	3.71
Cooling	12.49	8.3
Auxiliary	5.81	12.88
Lighting	10.15	15.72
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**32.83**	**41.21**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	226.11	166.76
Primary energy [kWh_{PE}/m^2]	48.14	60.7
Total emissions [kg/m^2]	4.36	5.55

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	36.7	189.4	3.8	12.5	5.8	2.69	4.21	2.64	6
	Notional	35.2	131.5	3.7	8.3	12.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.35 Morrisons

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Morrisons Be Lean Commercial — As designed

Date: Thu Nov 28 15:43:14 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certification tool

Calculation engine: SBEM
Calculation engine version: v6.1.e.1
Interface to calculation engine: Virtual Environment
Interface to calculation engine version: v7.0.26
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m²]: 3814.01

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	4.94	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	4.18	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	54.23	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	45.94	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	P000007B_W3
Floors	0.18	0.11	0.11	P000007B_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	P0000087_W3_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Lean

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	2.64	6	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
P-00-Morrison's Retail	120	85	1.765
P-00-Morrison's Sales Floor	120	85	1.765
P-00-Morrison's BOH	120	85	1.765
P-00-Morrison's Sales Floor	120	85	1.765
P-00-Morrison's Cafe	120	85	1.765
P-00-Morrison's Sales Lobby	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
P-00-Morrison's Retail	N/A	N/A
P-00-Morrison's Sales Floor	NO (-52.9%)	NO
P-00-Morrison's BOH	N/A	N/A
P-00-Morrison's Sales Floor	N/A	N/A
P-00-Morrison's Cafe	N/A	N/A
P-00-Morrison's Sales Lobby	YES (+103.7%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	3814	3814
External area [m²]	4084.2	4084.1
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	506.98	752.56
Average U-value [W/m²K]	0.12	0.18
Alpha value* [%]	8.53	6.62

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.15	0.24
Cooling	9.3	6.88
Auxiliary	5.95	9.27
Lighting	15.29	19.9
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**31.28**	**36.89**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	141.8	111.32
Primary energy [kWh_{PE}/m²]	45.94	54.23
Total emissions [kg/m²]	4.18	4.94

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	1.4	140.4	0.1	9.3	6	2.68	4.19	2.64	6
	Notional	2.3	109	0.2	6.9	9.3	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

APPENDIX D Non-Residential Commercial - Be Green

12.36 Block ABC

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

ABC Be Green Commercial — As designed

Date: Wed Nov 27 16:37:33 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 1269.97

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	5.42	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	3.5	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	58.97	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	37.88	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000000_W-1
Floors	0.18	0.11	0.11	00000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	00000000_C
Windows** and roof windows	1.6	1.3	1.3	00000000_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
A-00-RET-01	120	85	1.765
B-00-Comm-01	120	85	1.765
B-00-RET-01	120	85	1.765
B-00-RET-03	120	85	1.765
B-00-RET-02	120	85	1.765
B-00-RET-04	120	85	1.765
C-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
A-00-RET-01	NO (-43.2%)	NO
B-00-Comm-01	NO (-50.2%)	NO
B-00-RET-01	NO (-34%)	NO
B-00-RET-03	NO (-30.4%)	NO
B-00-RET-02	NO (-31.1%)	NO
B-00-RET-04	NO (-39.1%)	NO
C-00-RET-01	NO (-64%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1270	1270
External area [m²]	2443.4	2443.4
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	897.23	762.41
Average U-value [W/m²K]	0.37	0.31
Alpha value* [%]	48.89	36.74

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	4.45	5.33
Cooling	4.73	6.87
Auxiliary	6.87	11.5
Lighting	11.31	15.63
Hot water	0.57	0.59
Equipment*	20.26	20.26
TOTAL**	**27.93**	**39.93**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	2.28	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.28*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	152.84	159.44
Primary energy [kWh_{PE}/m²]	37.88	58.97
Total emissions [kg/m²]	3.5	5.42

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	81.9	71	4.5	4.7	6.9	5.11	4.16	5	6
	Notional	50.7	108.8	5.3	6.9	11.5	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.37 Block D

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

D Be Green Commercial — As designed

Date: Wed Nov 27 17:46:07 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 357.3

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	3.42	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	2.21	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	37.44	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	23.95	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	D000001D_W-1
Floors	0.18	0.11	0.11	D0000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	D0000051_C
Windows** and roof windows	1.6	1.3	1.3	D000001D_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
D-01-Comm-Office Space	120	-	-
D-02-Comm-Office Space	120	-	-
D-03-Comm-Office Space	120	-	-
D-04-Comm-Office Space	120	-	-
D-05-Comm-Office Space	120	-	-
D-00-Comm-Office Space	120	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
D-01-Comm-Office Space	NO (-65.8%)	YES
D-02-Comm-Office Space	NO (-65.8%)	YES
D-03-Comm-Office Space	NO (-65.8%)	YES
D-04-Comm-Office Space	NO (-65.8%)	YES
D-05-Comm-Office Space	NO (-70%)	YES
D-00-Comm-Office Space	NO (-39.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	2032	2032
External area [m²]	2026.8	2026.8
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	1041.9	899.62
Average U-value [W/m²K]	0.51	0.44
Alpha value* [%]	24.1	18.81

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
100	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	1.99	2.07
Cooling	4	5.61
Auxiliary	5.75	7.77
Lighting	6.11	8.95
Hot water	0.96	1.01
Equipment*	42.19	42.19
TOTAL**	**18.81**	**25.42**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	2.57	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.57*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	96.57	108.65
Primary energy [kWh_{PE}/m²]	23.95	37.44
Total emissions [kg/m²]	2.21	3.42

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	36.6	60	2	4	5.8	5.11	4.16	5	6
	Notional	19.7	88.9	2.1	5.6	7.8	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.38 Block E

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

E Be Green Commercial — As designed

Date: Fri Nov 29 17:47:58 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 346.48

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	11.28	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	6.96	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	122.78	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	75.06	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000003_W-1
Floors	0.18	0.11	0.11	00000003_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	00000003_C
Windows** and roof windows	1.6	1.3	1.3	00000003_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
E-00-F&B	120	85	1.765
E-00-Office-01	120	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
E-00-F&B	NO (-40.4%)	NO
E-00-Office-01	NO (-55%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	346.5	346.5
External area [m^2]	796.3	796.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	333.19	264.19
Average U-value [W/m^2K]	0.42	0.33
Alpha value* [%]	48.32	32.23

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
53	**Restaurants and Cafes/Drinking Establishments/Takeaways**
47	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	8	7.26
Cooling	12.17	13.49
Auxiliary	5.48	18.68
Lighting	10.6	16.46
Hot water	22.89	27.29
Equipment*	80.97	80.97
TOTAL**	**59.15**	**83.18**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	8.37	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*8.37*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	329.65	282.65
Primary energy [kWh_{PE}/m^2]	75.06	122.78
Total emissions [kg/m^2]	6.96	11.28

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	147.2	182.5	8	12.2	5.5	5.11	4.16	5	6
	Notional	69	213.6	7.3	13.5	15.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.39 Block F

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

F Be Green Commercial As designed

Date: Mon Mar 17 09:48:57 2025

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM
Calculation engine version: v6.1.e.2
Interface to calculation engine: Virtual Environment
Interface to calculation engine version: v7.0.27
BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 208.16

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	10.46	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	4.99	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	114.33	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	52.64	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	F0000000_W-1
Floors	0.18	0.11	0.11	F0000000_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	L0000002_C
Windows** and roof windows	1.6	1.3	1.3	F0000000_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m²K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
F-00-Retail-01	120	85	1.765
L00-F&B Restaurant	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
F-00-Retail-01	NO (-40.3%)	NO
L00-F&B Restaurant	NO (-56.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	208.2	208.2
External area [m^2]	432.6	432.6
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	217.08	162.14
Average U-value [W/m^2K]	0.5	0.37
Alpha value* [%]	33.78	27.94

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	4.83	4.55
Cooling	6.77	10.42
Auxiliary	9.42	17.27
Lighting	4.62	8.36
Hot water	30.67	37.01
Equipment*	48.61	48.61
TOTAL**	**56.31**	**77.6**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	20.77	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*20.77*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	190.28	208.32
Primary energy [kWh_{PE}/m^2]	52.64	114.33
Total emissions [kg/m^2]	4.99	10.46

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	88.9	101.4	4.8	6.8	9.4	5.11	4.16	5	6
	Notional	43.2	165.1	4.5	10.4	12.7	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.40 Block G

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

G Be Green-Commercial As designed

Date: Fri Nov 29 17:40:51 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 438.09

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	10.48	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	6.5	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	114.48	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	70.53	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000006E_W1
Floors	0.18	0.11	0.11	C000006E_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	C000006E_C
Windows** and roof windows	1.6	1.3	1.3	C000006E_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
G-00-Office-01	120	-	-
G-00-RET-02	120	85	1.765
G-00-F&B-03	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
G-00-Office-01	NO (-61.3%)	YES
G-00-RET-02	NO (-69.7%)	NO
G-00-F&B-03	NO (-68.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	438.1	438.1
External area [m^2]	898.3	898.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	218.11	250.81
Average U-value [W/m^2K]	0.24	0.28
Alpha value* [%]	36.03	23.3

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
40	**Retail/Financial and Professional Services**
47	**Restaurants and Cafes/Drinking Establishments/Takeaways**
14	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	2.11	3.46
Cooling	15.55	13.86
Auxiliary	6.09	17.7
Lighting	17.47	19.01
Hot water	19.99	23.68
Equipment*	67.43	67.43
TOTAL**	**61.21**	**77.7**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	13.24	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*13.24*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	271.93	252.39
Primary energy [kWh_{PE}/m^2]	70.53	114.48
Total emissions [kg/m^2]	6.5	10.48

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	38.9	233	2.1	15.5	6.1	5.11	4.16	5	6
	Notional	32.9	219.5	3.5	13.9	15.4	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.41 Block H

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

H Be Green Commercial — As designed

Date: Thu Nov 28 12:16:24 2024

Administrative information

Building Details

Address: Address 1, Address 2, City, Postcode

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM
Calculation engine version: v6.1.e.1
Interface to calculation engine: Virtual Environment
Interface to calculation engine version: v7.0.26
BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 240.58

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	13.06	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	7.97	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	142.49	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	86.06	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	H0000008_W3
Floors	0.18	0.11	0.11	H0000008_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	H0000164_C
Windows** and roof windows	1.6	1.3	1.3	H0000008_W3_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6	-	1.5	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0005-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
H-00-RET-02	120	85	1.765
H-00-F&B Restaurant	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
H-00-RET-02	NO (-74.2%)	NO
H-00-F&B Restaurant	NO (-59.6%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	240.6	240.6
External area [m²]	493.1	493.1
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	169.95	168.03
Average U-value [W/m²K]	0.34	0.34
Alpha value* [%]	48.73	34.13

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
35	**Retail/Financial and Professional Services**
65	**Restaurants and Cafes/Drinking Establishments/Takeaways**
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	5.42	6.12
Cooling	13.53	15.07
Auxiliary	13.15	21.37
Lighting	14.43	20.71
Hot water	26.31	33.37
Equipment*	81.87	81.87
TOTAL**	**72.83**	**96.64**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	14.46	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*14.46*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	302.5	296.91
Primary energy [kWh_{PE}/m²]	86.06	142.49
Total emissions [kg/m²]	7.97	13.06

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	99.7	202.8	5.4	13.5	13.1	5.11	4.16	5	6
	Notional	58.1	238.8	6.1	15.1	17.4	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.42 Block J1J2

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

J1J2 Be Green Commercial

As designed

Date: Fri Nov 29 17:26:03 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 93.04

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	5.89	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	3.51	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	63.9	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	38.55	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	J1000001_W-1
Floors	0.18	0.11	0.11	J1000001_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	J1000001_W-1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6.1	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	2.86	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
J1-00-Retail-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
J1-00-Retail-01	YES (+29.3%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	93	93
External area [m^2]	198.3	198.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	101.39	84.27
Average U-value [W/m^2K]	0.51	0.42
Alpha value* [%]	35.8	30.16

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	5.42	9.37
Cooling	13.69	7.48
Auxiliary	4.97	11.3
Lighting	7.95	14.45
Hot water	0.59	0.59
Equipment*	20.26	20.26
TOTAL**	**32.61**	**43.19**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	6.23	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*6.23*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	308.94	207.46
Primary energy [kWh_{PE}/m^2]	38.55	63.9
Total emissions [kg/m^2]	3.51	5.89

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	98.8	210.1	5.4	13.7	5	5.07	4.26	5	6.1
	Notional	89	118.4	9.4	7.5	11.3	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.43 Block K

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

K Be Green Commercial — As designed

Date: Fri Nov 29 20:33:57 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 510.35

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	4.78	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	3.09	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	52.22	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	33.46	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000006B_W1
Floors	0.18	0.11	0.11	C000006B_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.11	0.11	K0000000_C
Windows** and roof windows	1.6	1.3	1.3	C000006B_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6.1	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
K-00-Office-02	120	-	-
K-01-Leisure	120	85	1.765
K-00-Leisure-01	120	85	1.765
K-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
K-00-Office-02	NO (-65.1%)	YES
K-01-Leisure	NO (-63.2%)	NO
K-00-Leisure-01	NO (-56.4%)	NO
K-00-RET-01	NO (-60.6%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1020.7	1020.7
External area [m²]	1202.8	1202.8
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	532.47	441.93
Average U-value [W/m²K]	0.44	0.37
Alpha value* [%]	46.03	37.1

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
94	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
6	**Offices and Workshop Businesses**
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	2.69	2.58
Cooling	4.43	6.48
Auxiliary	5.9	10.69
Lighting	11.91	15.06
Hot water	0.59	0.62
Equipment*	21.53	21.53
TOTAL**	**25.51**	**35.43**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	2.84	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.84*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	117	127.19
Primary energy [kWh_{PE}/m²]	33.46	52.22
Total emissions [kg/m²]	3.09	4.78

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	49	68	2.7	4.4	5.9	5.07	4.26	5	6.1
	Notional	24.5	102.7	2.6	6.5	10.7	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.44 Block L

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block L_Be Green As designed

Date: Sun Dec 01 21:39:08 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 18.49

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	6.61	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	3.7	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	71.35	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	40.28	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	L0000075_W1
Floors	0.18	0.11	0.11	L0000075_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	L0000075_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6.1	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
L-00-RET-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
L-00-RET-01	YES (+1.2%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	18.5	18.5
External area [m^2]	44.7	44.7
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	22.53	20.29
Average U-value [W/m^2K]	0.5	0.45
Alpha value* [%]	36.3	26.66

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	6.81	12.17
Cooling	12.14	7.11
Auxiliary	5.95	10.89
Lighting	8.24	17.34
Hot water	0.57	0.59
Equipment*	20.26	20.26
TOTAL**	**33.7**	**48.1**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	6.27	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*6.27*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	310.51	228.22
Primary energy [kWh_{PE}/m^2]	40.28	71.35
Total emissions [kg/m^2]	3.7	6.61

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	124.1	186.4	6.8	12.1	6	5.07	4.26	5	6.1
	Notional	115.6	112.6	12.2	7.1	10.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.45 Block N

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

N Be Green Commercial As designed

Date: Thu Nov 28 12:58:24 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 99.19

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	5.55	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	3.34	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	60.7	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	36.74	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	N000005A_W1
Floors	0.18	0.11	0.11	N000005A_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	N000005A_W1_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6.1	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
N-00-Retail-01	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
N-00-Retail-01	YES (+40.4%)	YES

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	99.2	99.2
External area [m²]	165.8	165.8
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	60.89	59.4
Average U-value [W/m²K]	0.37	0.36
Alpha value* [%]	36.15	24.23

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	2.01	3.71
Cooling	12.34	8.3
Auxiliary	5.95	12.88
Lighting	10.15	15.72
Hot water	0.57	0.59
Equipment*	20.26	20.26
TOTAL**	**31.02**	**41.21**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	5.85	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*5.85*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	226.11	166.76
Primary energy [kWh_{PE}/m²]	36.74	60.7
Total emissions [kg/m²]	3.34	5.55

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	36.7	189.4	2	12.3	6	5.07	4.26	5	6.1
	Notional	35.2	131.5	3.7	8.3	12.9	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.46 Morrisons

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Morrisons Be Green Commercial As designed

Date: Thu Nov 28 15:49:44 2024

Administrative information

Building Details

Address: Address 1, Address 2, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.e.1

Interface to calculation engine: Virtual Environment

Interface to calculation engine version: v7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 3814.01

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	4.94	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	3.2	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	54.23	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	34.82	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	P000007B_W3
Floors	0.18	0.11	0.11	P000007B_F
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	-	-	No heat loss flat roofs
Windows** and roof windows	1.6	1.3	1.3	P0000087_W3_O0
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	-	-	No external personnel doors
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- VRF - Be Green

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5	6.1	-	1.3	0.8
Standard value	2.5*	5	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.

^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.

1- SYST0006-DHW

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3	-
Standard value	2*	N/A

* Standard shown is for all types except absorption and gas engine heat pumps.

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
P-00-Morrison's Retail	120	85	1.765
P-00-Morrison's Sales Floor	120	85	1.765
P-00-Morrison's BOH	120	85	1.765
P-00-Morrison's Sales Floor	120	85	1.765
P-00-Morrison's Cafe	120	85	1.765
P-00-Morrison's Sales Lobby	120	85	1.765

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
P-00-Morrison's Retail	N/A	N/A
P-00-Morrison's Sales Floor	NO (-52.9%)	NO
P-00-Morrison's BOH	N/A	N/A
P-00-Morrison's Sales Floor	N/A	N/A
P-00-Morrison's Cafe	N/A	N/A
P-00-Morrison's Sales Lobby	YES (+103.7%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	3814	3814
External area [m²]	4084.2	4084.1
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	506.98	752.56
Average U-value [W/m²K]	0.12	0.18
Alpha value* [%]	8.53	6.62

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
100	**Retail/Financial and Professional Services**
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.08	0.24
Cooling	9.14	6.88
Auxiliary	5.95	9.27
Lighting	15.29	19.9
Hot water	0.57	0.59
Equipment*	20.26	20.26
TOTAL**	**31.03**	**36.89**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	7.3	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*7.3*	*0*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	141.8	111.32
Primary energy [kWh_{PE}/m²]	34.82	54.23
Total emissions [kg/m²]	3.2	4.94

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	1.4	140.4	0.1	9.1	6	5.07	4.26	5	6.1
	Notional	2.3	109	0.2	6.9	9.3	2.64	4.4	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

APPENDIX E Communal Corridors – Be Lean

12.47 Block ABC

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

ABC Communal Be Lean — As designed

Date: Fri Nov 29 18:49:02 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.27
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.27
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m²]: 53

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	1.24	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	1.41	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	12.39	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	14.69	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000015:Surf[0]
Floors	0.18	0.11	0.11	0000000A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	B0000011:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	B0000020:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m²K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
A-00-RET-Circulation	120	-	-
A-01-RET-Circulation	120	-	-
A-02-Circulation	120	-	-
A-03-Circulation	120	-	-
A-04-Circulation	120	-	-
B-01-Circulation	120	-	-
B-01-Circulation	120	-	-
B-01-Circulation	120	-	-
B-02-Circulation	120	-	-
B-03-Circulation	120	-	-
B-03-Circulation	120	-	-
B-03-Circulation	120	-	-
B-04 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
C-00-Corridors	120	-	-
C-01-Corridors	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	371	371
External area [m^2]	322.3	322.3
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	70.59	133.75
Average U-value [W/m^2K]	0.22	0.41
Alpha value* [%]	18.17	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	4.56	5.28
Cooling	0	0
Auxiliary	0	0
Lighting	5.14	7.52
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**9.71**	**12.8**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	4.7
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*4.7*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	16.43	26.82
Primary energy [kWh_{PE}/m^2]	14.69	12.39
Total emissions [kg/m^2]	1.41	1.24

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	16.4	0	4.6	0	0	1	0	1	0
	Notional	26.8	0	5.3	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.48 Block D

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Corridors Aylesham Centre_D_Be Lean_ As designed

Date: Sat Nov 30 19:14:38 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 30.6

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	2.53	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	2.72	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	25.29	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	28.09	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	D0000005:Surf[1]
Floors	0.18	0.11	0.11	D0000005:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	-	-	No flat roofs in building
Windows** and roof windows	1.6	1.3	1.3	D000002B:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	153	153
External area [m^2]	244.7	244.7
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	58.43	128.52
Average U-value [W/m^2K]	0.24	0.53
Alpha value* [%]	18.29	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	10.87	12.39
Cooling	0	0
Auxiliary	0	0
Lighting	7.63	10.67
Hot water	0	0
Equipment*	13.12	13.12
TOTAL**	**18.49**	**23.06**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	6.58
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*6.58*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	39.11	62.92
Primary energy [kWh_{PE}/m^2]	28.09	25.29
Total emissions [kg/m^2]	2.72	2.53

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	39.1	0	10.9	0	0	1	0	1	0
	Notional	62.9	0	12.4	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.49 Block E

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential Corridors_Aylesham Centre_E_Be Lean — As designed

Date: Sat Nov 30 20:16:37 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.26
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.26
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m²]: 59.31

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	0.81	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.91	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	8.63	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	9.9	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	0000001E:Surf[1]
Floors	0.18	0.11	0.11	0000002A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	0900003D:Surf[0]
Windows** and roof windows	1.6	-	-	No windows, galzed doors, or roof windows in building
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m²K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Lobby	120	-	-
E-02-Corridor	120	-	-
E-02-Corridor	120	-	-
E-03-Corridor	120	-	-
E-03-Corridor	120	-	-
E-03-Corridor	120	-	-
E-04-Corridor	120	-	-
E-04-Corridor	120	-	-
E-04-Corridor	120	-	-
E-05-Corridor	120	-	-
E-05-Corridor	120	-	-
E-05-Corridor	120	-	-
E-06-Corridor	120	-	-
E-06-Corridor	120	-	-
E-06-Corridor	120	-	-
E-07-Corridor	120	-	-
E-07-Corridor	120	-	-
E-07-Corridor	120	-	-
E-08-Corridor	120	-	-
E-08-Corridor	120	-	-
E-08-Corridor	120	-	-
E-09-Corridor	120	-	-
E-09-Corridor	120	-	-
E-09-Corridor	120	-	-
E-10-Corridor	120	-	-

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	593.1	593.1
External area [m^2]	146	146
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	16.38	25.05
Average U-value [W/m^2K]	0.11	0.17
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	0.26	0.27
Cooling	0	0
Auxiliary	0	0
Lighting	6.44	8.86
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.7**	**9.13**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	3.29
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*3.29*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	0.93	1.36
Primary energy [kWh_{PE}/m^2]	9.9	8.63
Total emissions [kg/m^2]	0.91	0.81

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
E-10-Corridor	120	-	-
E-10-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	0.9	0	0.3	0	0	1	0	1	0
	Notional	1.4	0	0.3	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.50 Block F

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential Corridors_Aylesham Centre_F_Be Lean_ As designed

Date: Sat Nov 30 21:06:21 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 40.77

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	0.59	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	1	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	5.92	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	10.62	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	F0000010:Surf[2]
Floors	0.18	0.11	0.11	F0000015:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	BF000079:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	F0000010:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Lobby	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	244.6	244.6
External area [m²]	144.9	144.9
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	35.41	37.95
Average U-value [W/m²K]	0.24	0.26
Alpha value* [%]	16.27	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	1.9	1.46
Cooling	0	0
Auxiliary	0	0
Lighting	5.21	7.96
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.1**	**9.42**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	5.48
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*5.48*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	6.82	7.42
Primary energy [kWh_{PE}/m²]	10.62	5.92
Total emissions [kg/m²]	1	0.6

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	6.8	0	1.9	0	0	1	0	1	0
	Notional	7.4	0	1.5	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.51 Block G

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridor_Aylesham Centre_G_Be Lean — As designed

Date: Sun Dec 01 17:17:39 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 71.5

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	1.22	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	1.1	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	12.54	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	11.53	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C0000094:Surf[2]
Floors	0.18	0.11	0.11	C0000094:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	C0000094:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	C00000E7:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
G-00-Circulation-06	120	-	-
G-00-Lobby-01	120	-	-
G-00-Corridor-01	120	-	-
G-00-Corridor-01	120	-	-
G-02-Corridor-01	120	-	-
G-02-Corridor-01	120	-	-
G-03-Corridor-01	120	-	-
G-03-Corridor-01	120	-	-
G-04-Corridor-01	120	-	-
G-04-Corridor-01	120	-	-
G-05-Corridor-01	120	-	-
G-05-Corridor-01	120	-	-
G-06-Corridor-01	120	-	-
G-06-Corridor-01	120	-	-
G-07-Corridor-01	120	-	-
G-07-Corridor-01	120	-	-
G-08-Corridor-01	120	-	-
G-08-Corridor-01	120	-	-
G-09-Corridor	120	-	-
G-10-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
G-Corridor	120	-	-
G-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	858	858
External area [m^2]	420.1	420.1
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	134.61	224.68
Average U-value [W/m^2K]	0.32	0.53
Alpha value* [%]	15.43	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	2.76	3.53
Cooling	0	0
Auxiliary	0	0
Lighting	4.9	7.52
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.66**	**11.05**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	2.74
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*2.74*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	9.95	17.91
Primary energy [kWh_{PE}/m^2]	11.53	12.54
Total emissions [kg/m^2]	1.1	1.22

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	9.9	0	2.8	0	0	1	0	1	0
	Notional	17.9	0	3.5	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.52 Block H

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridors_Aylesham_Centre_H_Be Lean — As designed

Date: Sun Dec 01 16:58:17 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 64.69

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	1.08	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.98	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	11.16	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	10.45	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	H0000162:Surf[1]
Floors	0.18	0.11	0.11	H0000162:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	H0000161:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	H0000000:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m^2]
Standard value	95	80	0.3
H-00-Corridor	120	-	-
H-00-Corridor	120	-	-
H-00-Corridor	120	-	-
H-00-Lobby	120	-	-
H-01-Corridor	120	-	-
H-01-Corridor	120	-	-
H-02-Corridor	120	-	-
H-02-Corridor	120	-	-
H-02-Corridor	120	-	-
H-03-Corridor	120	-	-
H-03-Corridor	120	-	-
H-04-Corridor	120	-	-
H-04-Corridor	120	-	-
H-05-Corridor	120	-	-
H-05-Corridor	120	-	-
H-06-Corridor	120	-	-
H-06-Corridor	120	-	-
H-07-Corridor	120	-	-
H-07-Corridor	120	-	-
H-08-Corridor	120	-	-
H-08-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	582.2	582.2
External area [m^2]	346.7	346.7
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	58.01	132.27
Average U-value [W/m^2K]	0.17	0.38
Alpha value* [%]	21.2	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	1.35	2.6
Cooling	0	0
Auxiliary	0	0
Lighting	5.66	8.48
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.01**	**11.07**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	3.66
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*3.66*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	4.85	13.18
Primary energy [kWh_{PE}/m^2]	10.45	11.16
Total emissions [kg/m^2]	0.98	1.08

HVAC Systems Performance

System Type	Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity									
Actual	4.9	0	1.3	0	0	1	0	1	0
Notional	13.2	0	2.6	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.53 Block J1J2

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridor_Aylesham Centre_Block J1J2 _Be Lean — As designed

Date: Sun Dec 01 00:29:18 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 70.37

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	0.95	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	0.98	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	10.11	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	10.54	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	J100001A:Surf[1]
Floors	0.18	0.11	0.11	J100001A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	BJ0000C5:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	J2000003:Surf[2]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
J1-00-Lobby	120	-	-
J1-00-Corridor	120	-	-
J1-00-Circulation	120	-	-
J1-00-Lobby-02	120	-	-
J1-00-Lobby-01	120	-	-
J1-00-Circulation	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
BJ1-00-Corridor	120	-	-
BJ1-01-Lobby	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-01-Corridor	120	-	-
BJ1-01-Corridor	120	-	-
BJ2-00-Corridor	120	-	-
BJ2-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1196.3	1196.3
External area [m²]	315.9	315.9
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	56.12	82.99
Average U-value [W/m²K]	0.18	0.26
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.72	0.7
Cooling	0	0
Auxiliary	0	0
Lighting	6.39	8.06
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.11**	**8.75**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	1.94
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*1.94*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	2.59	3.53
Primary energy [kWh_{PE}/m²]	10.54	10.11
Total emissions [kg/m²]	0.98	0.95

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	2.6	0	0.7	0	0	1	0	1	0
	Notional	3.5	0	0.7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.54 Block K

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Block K Communal Be Lean As designed

Date: Sat Nov 30 19:28:55 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Foundation area [m²]: 112.08

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	1	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	0.9	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	10.35	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	9.59	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000004A:Surf[2]
Floors	0.18	0.11	0.11	C0000089:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	C000004A:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	C000004A:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
K-08-F1	120	-	-
K-08-F1	120	-	-
K-00-RET-01	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-01-Corridor	120	-	-
K-01-Lobby	120	-	-
K-02-Corridor	120	-	-
K-02-Corridor	120	-	-
K-02-Lobby	120	-	-
K-03-Corridor	120	-	-
K-03-Corridor	120	-	-
K-03-Lobby	120	-	-
K-04-Corridor	120	-	-
K-04-Corridor	120	-	-
K-04-Lobby	120	-	-
K-05-Corridor	120	-	-
K-05-Corridor	120	-	-
K-05-Lobby	120	-	-
K-06-Corridor	120	-	-
K-06-Corridor	120	-	-
K-06-Lobby	120	-	-
K-07-Corridor	120	-	-
K-07-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
K-07-Lobby	120	-	-
K-08-F1	120	-	-
K-08-F11-Corridor	120	-	-
K-09-12-Corridor	120	-	-
K-09-11-Corridor	120	-	-
K-09-10-Corridor	120	-	-
K-09-09-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	1120.8	1120.8
External area [m^2]	545.1	545.1
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	119.27	227.05
Average U-value [W/m^2K]	0.22	0.42
Alpha value* [%]	18.16	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	1.38	2.46
Cooling	0	0
Auxiliary	0	0
Lighting	5.04	7.71
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.42**	**10.17**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	3.29
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*3.29*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	4.97	12.5
Primary energy [kWh_{PE}/m^2]	9.59	10.35
Total emissions [kg/m^2]	0.9	1

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	5	0	1.4	0	0	1	0	1	0
	Notional	12.5	0	2.5	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.55 Block L

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block L_Resi Communal Be Lean 14032025 — As designed

Date: Fri Mar 14 19:01:22 2025

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.27
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.27
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m^2]: 79.46

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	0.93	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.84	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	9.54	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	9.04	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	L0000009:Surf[1]
Floors	0.18	0.11	0.11	L0000077:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	L100001C:Surf[2]
Windows** and roof windows	1.6	1.3	1.3	L0000009:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
L-02-Corridor	120	-	-
L-00-Corridor	120	-	-
L-00-Corridor	120	-	-
L-00-Corridor	120	-	-
L-01-Corridor	120	-	-
L-03-Corridor	120	-	-
L-04-Corridor	120	-	-
L-05-Corridor	120	-	-
L-06-Corridor	120	-	-
L-07-Corridor	120	-	-
L-08-Corridor	120	-	-
L-09-Corridor	120	-	-
L-10-Corridor	120	-	-
L-00-Corridor	120	-	-
L-01-Corridor	120	-	-
L-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	874.1	874.1
External area [m^2]	402.7	402.7
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	63.67	185.27
Average U-value [W/m^2K]	0.16	0.46
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	0.61	2.32
Cooling	0	0
Auxiliary	0	0
Lighting	5.48	7
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.09**	**9.32**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	0	2.99
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*2.99*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	2.21	11.8
Primary energy [kWh_{PE}/m^2]	9.04	9.54
Total emissions [kg/m^2]	0.84	0.93

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	2.2	0	0.6	0	0	1	0	1	0
	Notional	11.8	0	2.3	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.56 Block M

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block M Communal Be Lean — As designed

Date: Sun Dec 01 17:13:55 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 105.12

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	0.82	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.78	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	8.78	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	8.53	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	M0000004:Surf[0]
Floors	0.18	0.11	0.11	M00000F4:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	M00002BA:Surf[0]
Windows** and roof windows	1.6	-	-	No windows, galzed doors, or roof windows in building
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
M-02-Circulation	120	-	-
M-02-Lift Lobby	120	-	-
M-00-Concierge Lobby	120	-	-
M-00-Corridor	120	-	-
M-00-Sterile Lobby	120	-	-
M-00-Corridor	120	-	-
M-03-Lift Lobby	120	-	-
M-03-Circulation	120	-	-
M-04-Lift Lobby	120	-	-
M-04-Circulation	120	-	-
M-05-Lift Lobby	120	-	-
M-05-Circulation	120	-	-
M-06-Lift Lobby	120	-	-
M-06-Circulation	120	-	-
M-07-Lift Lobby	120	-	-
M-07-Circulation	120	-	-
M-08-Lift Lobby	120	-	-
M-08-Circulation	120	-	-
M-09-Lift Lobby	120	-	-
M-09-Circulation	120	-	-
M-10-Lift Lobby	120	-	-
M-10-Circulation	120	-	-
M-11-Lift Lobby	120	-	-
M-11-Circulation	120	-	-
M-12-Lift Lobby	120	-	-
M-12-Circulation	120	-	-
M-13-Lift Lobby	120	-	-
M-13-Circulation	120	-	-
M-14-Lift Lobby	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
M-14-Circulation	120	-	-
M-15-Lift Lobby	120	-	-
M-15-Circulation	120	-	-
M-16-Lift Lobby	120	-	-
M-16-Circulation	120	-	-
M-17-Lift Lobby	120	-	-
M-17-Circulation	120	-	-
M-18-Lift Lobby	120	-	-
M-18-Circulation	120	-	-
M-19-Corridor-01	120	-	-
M-19-Corridor-01	120	-	-
M-20-Corridor-01	120	-	-
M-20-Corridor-01	120	-	-
M-00-Circulation	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	2207.5	2207.5
External area [m²]	362.3	362.3
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	42.25	85.49
Average U-value [W/m²K]	0.12	0.24
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.05	0.12
Cooling	0	0
Auxiliary	0	0
Lighting	5.73	7.4
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**5.78**	**7.51**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	1.57
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*1.57*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	0.16	0.59
Primary energy [kWh_{PE}/m²]	8.53	8.78
Total emissions [kg/m²]	0.78	0.82

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	0.2	0	0.1	0	0	0.84	0	1	0
	Notional	0.6	0	0.1	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.57 Block N

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block N Communal Be Lean — As designed

Date: Mon Mar 17 12:36:36 2025

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.27
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.27
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m²]: 61.35

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	1.75	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	1.66	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	17.85	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	17.12	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	N0000054:Surf[1]
Floors	0.18	0.11	0.11	N0000054:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	N0000113:Surf[1]
Windows** and roof windows	1.6	1.31	1.31	N0000083:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m²K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
N-00-Lobby	120	-	-
N-00-Corridor	120	-	-
N-01-Corridor	120	-	-
N-01-Circulation	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-07-Corridor-01	120	-	-
N-07-Corridor-01	120	-	-
N-08-Corridor-01	120	-	-
N-08-Corridor-01	120	-	-
N-09-Corridor-01	120	-	-
N-09-Corridor-01	120	-	-
N-10-Corridor-01	120	-	-
N-10-Corridor-01	120	-	-
N-11-Corridor-01	120	-	-
N-11-Corridor-01	120	-	-
N-12-Corridor-01	120	-	-
N-12-Corridor-01	120	-	-
N-00-Corridor	120	-	-
N-00-Corridor	120	-	-
N-00-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	797.5	797.5
External area [m²]	608.7	608.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	162.18	310.41
Average U-value [W/m²K]	0.27	0.51
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	6.7	7.03
Cooling	0	0
Auxiliary	0	0
Lighting	4.55	7.23
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**11.25**	**14.27**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	2.53
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*2.53*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	20.31	35.72
Primary energy [kWh_{PE}/m²]	17.12	17.85
Total emissions [kg/m²]	1.66	1.75

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	20.3	0	6.7	0	0	0.84	0	1	0
	Notional	35.7	0	7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.58 Block P

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block P Communal_Be Lean — As designed

Date: Sat Nov 30 21:08:10 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 74.27

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	1.06	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	1.07	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	11.01	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	11.37	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	P000007C:Surf[1]
Floors	0.18	0.11	0.11	P000007C:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	P000019F:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	P00001A5:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
P-00-RET-01	120	-	-
P-00-Lobby	120	-	-
P-00-Circulation	120	-	-
P-00-Circulation	120	-	-
P-01-Corridor	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-00-RET-01	120	-	-
P-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	891.2	891.2
External area [m²]	441.7	441.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	99.76	201.96
Average U-value [W/m²K]	0.23	0.46
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	1.98	2.64
Cooling	0	0
Auxiliary	0	0
Lighting	5.62	7.41
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.59**	**10.06**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	2.74
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*2.74*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	5.99	13.43
Primary energy [kWh_{PE}/m²]	11.37	11.01
Total emissions [kg/m²]	1.07	1.06

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	6	0	2	0	0	0.84	0	1	0
	Notional	13.4	0	2.6	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.59 Block Q

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block Q_Be Lean As designed

Date: Sat Nov 30 18:42:57 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Foundation area [m^2]: 72.56

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	1.05	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	1.35	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	10.35	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	14.13	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	Q0000003:Surf[0]
Floors	0.18	0.11	0.11	P0000071:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	Q00000B4:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	Q00000BD:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
Q-00-Lobby	120	-	-
Q-00-Lobby	120	-	-
Q-00-Corridor	120	-	-
Q-00-Circulation	120	-	-
Q-00-Circulation	120	-	-
Q-00-Circulation	120	-	-
Q-00-Circulation	120	-	-
Q-00-Circulation	120	-	-
Q-00-Corridor	120	-	-
Q-00-Circulation	120	-	-
Q-00-Corridor	120	-	-
Q-00-Corridor	120	-	-
Q-00-Lobby	120	-	-
Q-00-Lobby	120	-	-
Q-00-Lobby	120	-	-
Q-00-Lobby	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	435.3	435.3
External area [m²]	343.5	343.5
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	72.32	139.99
Average U-value [W/m²K]	0.21	0.41
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	3.64	4.69
Cooling	0	0
Auxiliary	0	0
Lighting	5.75	7.56
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**9.38**	**12.25**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	5.48
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*5.48*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	13.1	23.8
Primary energy [kWh_{PE}/m²]	14.13	10.35
Total emissions [kg/m²]	1.35	1.05

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	13.1	0	3.6	0	0	1	0	1	0
	Notional	23.8	0	4.7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

APPENDIX F Communal Corridors - Be Green

12.60 Block ABC

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

ABC Communal Be Green As designed

Date: Fri Nov 29 19:07:53 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.27

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.27

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 53

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	1.24	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.8	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	12.39	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	7.7	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	00000015:Surf[0]
Floors	0.18	0.11	0.11	0000000A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	B0000011:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	B0000020:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	**General luminaire**	**Display light source**	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
A-00-RET-Circulation	120	-	-
A-01-RET-Circulation	120	-	-
A-02-Circulation	120	-	-
A-03-Circulation	120	-	-
A-04-Circulation	120	-	-
B-01-Circulation	120	-	-
B-01-Circulation	120	-	-
B-01-Circulation	120	-	-
B-02-Circulation	120	-	-
B-02-Circulation	120	-	-
B-03-Circulation	120	-	-
B-03-Circulation	120	-	-
B-04 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
B-05 -Circulation	120	-	-
C-00-Corridors	120	-	-
C-01-Corridors	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	371	371
External area [m²]	322.3	322.3
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	70.59	133.75
Average U-value [W/m²K]	0.22	0.41
Alpha value* [%]	18.17	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	4.4	5.28
Cooling	0	0
Auxiliary	0	0
Lighting	5.57	7.52
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**9.98**	**12.8**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	5	4.7
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*5*	*4.7*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	15.84	26.82
Primary energy [kWh_{PE}/m²]	7.7	12.39
Total emissions [kg/m²]	0.8	1.24

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	15.8	0	4.4	0	0	1	0	1	0
	Notional	26.8	0	5.3	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.61 Block D

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Corridors Aylesham Centre_D_Be Green_ As designed

Date: Sat Nov 30 19:54:59 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 30.6

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	2.53	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	1.64	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	25.29	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	15.46	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	D0000005:Surf[1]
Floors	0.18	0.11	0.11	D0000005:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	-	-	No flat roofs in building
Windows** and roof windows	1.6	1.3	1.3	D000002B:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-00-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-01-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-02-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-03-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-
D-04-Comm-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	153	153
External area [m²]	244.7	244.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	58.43	128.52
Average U-value [W/m²K]	0.24	0.53
Alpha value* [%]	18.29	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	10.87	12.39
Cooling	0	0
Auxiliary	0	0
Lighting	7.63	10.67
Hot water	0	0
Equipment*	13.12	13.12
TOTAL**	**18.49**	**23.06**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	8.65	6.58
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*8.65*	*6.58*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	39.11	62.92
Primary energy [kWh_{PE}/m²]	15.46	25.29
Total emissions [kg/m²]	1.64	2.53

12.62 Block E

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential Corridors_Aylesham Centre_E_Be Green — As designed

Date: Sat Nov 30 20:42:49 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 59.31

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	0.81	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	0.52	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	8.63	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	5.36	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	0000001E:Surf[1]
Floors	0.18	0.11	0.11	0000002A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	0900003D:Surf[0]
Windows** and roof windows	1.6	-	-	No windows, galzed doors, or roof windows in building
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Corridor	120	-	-
E-00-Office-Lobby	120	-	-
E-02-Corridor	120	-	-
E-02-Corridor	120	-	-
E-02-Corridor	120	-	-
E-03-Corridor	120	-	-
E-03-Corridor	120	-	-
E-03-Corridor	120	-	-
E-04-Corridor	120	-	-
E-04-Corridor	120	-	-
E-04-Corridor	120	-	-
E-05-Corridor	120	-	-
E-05-Corridor	120	-	-
E-05-Corridor	120	-	-
E-06-Corridor	120	-	-
E-06-Corridor	120	-	-
E-06-Corridor	120	-	-
E-07-Corridor	120	-	-
E-07-Corridor	120	-	-
E-07-Corridor	120	-	-
E-08-Corridor	120	-	-
E-08-Corridor	120	-	-
E-08-Corridor	120	-	-
E-09-Corridor	120	-	-
E-09-Corridor	120	-	-
E-09-Corridor	120	-	-
E-10-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
E-10-Corridor	120	-	-
E-10-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	593.1	593.1
External area [m²]	146	146
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	16.38	25.05
Average U-value [W/m²K]	0.11	0.17
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.26	0.27
Cooling	0	0
Auxiliary	0	0
Lighting	6.44	8.86
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.7**	**9.13**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	3.11	3.29
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*3.11*	*3.29*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	0.93	1.36
Primary energy [kWh_{PE}/m²]	5.36	8.63
Total emissions [kg/m²]	0.52	0.81

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	0.9	0	0.3	0	0	1	0	1	0
	Notional	1.4	0	0.3	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.63 Block F

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential Corridors_Aylesham Centre_F_Be Green_ As designed

Date: Sat Nov 30 21:19:53 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Foundation area [m²]: 40.77

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	0.59	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.38	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	5.92	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	3.41	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	F0000010:Surf[2]
Floors	0.18	0.11	0.11	F0000015:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	BF000079:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	F0000010:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
m³/(h.m²) at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Circulation	120	-	-
F-04-Lobby	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	244.6	244.6
External area [m²]	144.9	144.9
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	35.41	37.95
Average U-value [W/m²K]	0.24	0.26
Alpha value* [%]	16.27	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	1.9	1.46
Cooling	0	0
Auxiliary	0	0
Lighting	5.21	7.96
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.1**	**9.42**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	4.94	5.48
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*4.94*	*5.48*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	6.82	7.42
Primary energy [kWh_{PE}/m²]	3.41	5.92
Total emissions [kg/m²]	0.38	0.6

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	6.8	0	1.9	0	0	1	0	1	0
	Notional	7.4	0	1.5	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.64 Block G

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridor_Aylesham Centre_G_Be Green — As designed

Date: Sun Dec 01 17:22:58 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 71.5

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$.annum	1.22	
Building CO_2 emission rate (BER), $kgCO_2/m^2$.annum	0.79	
Target primary energy rate (TPER), kWh_{PE}/m^2.annum	12.54	
Building primary energy rate (BPER), kWh_{PE}/m^2.annum	7.91	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C0000094:Surf[2]
Floors	0.18	0.11	0.11	C0000094:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	C0000094:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	C00000E7:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
G-00-Circulation-06	120	-	-
G-00-Lobby-01	120	-	-
G-00-Corridor-01	120	-	-
G-00-Corridor-01	120	-	-
G-02-Corridor-01	120	-	-
G-02-Corridor-01	120	-	-
G-03-Corridor-01	120	-	-
G-03-Corridor-01	120	-	-
G-04-Corridor-01	120	-	-
G-04-Corridor-01	120	-	-
G-05-Corridor-01	120	-	-
G-05-Corridor-01	120	-	-
G-06-Corridor-01	120	-	-
G-06-Corridor-01	120	-	-
G-07-Corridor-01	120	-	-
G-07-Corridor-01	120	-	-
G-08-Corridor-01	120	-	-
G-08-Corridor-01	120	-	-
G-09-Corridor	120	-	-
G-10-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-
G-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
G-Corridor	120	-	-
G-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	858	858
External area [m^2]	420.1	420.1
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	134.61	224.68
Average U-value [W/m^2K]	0.32	0.53
Alpha value* [%]	15.43	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	2.76	3.53
Cooling	0	0
Auxiliary	0	0
Lighting	4.9	7.52
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.66**	**11.05**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	2.48	2.74
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.48*	*2.74*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	9.95	17.91
Primary energy [kWh_{PE}/m^2]	7.91	12.54
Total emissions [kg/m^2]	0.79	1.22

HVAC Systems Performance

System Type	Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity									
Actual	9.9	0	2.8	0	0	1	0	1	0
Notional	17.9	0	3.5	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.65 Block H

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridors_Aylesham_Centre_H_Be Green — As designed

Date: Sun Dec 01 17:13:35 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 64.69

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	1.08	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.66	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	11.16	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	6.76	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	H0000162:Surf[1]
Floors	0.18	0.11	0.11	H0000162:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	H0000161:Surf[1]
Windows** and roof windows	1.6	1.3	1.3	H0000000:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
H-00-Corridor	120	-	-
H-00-Corridor	120	-	-
H-00-Corridor	120	-	-
H-00-Lobby	120	-	-
H-01-Corridor	120	-	-
H-01-Corridor	120	-	-
H-02-Corridor	120	-	-
H-02-Corridor	120	-	-
H-03-Corridor	120	-	-
H-03-Corridor	120	-	-
H-04-Corridor	120	-	-
H-04-Corridor	120	-	-
H-05-Corridor	120	-	-
H-05-Corridor	120	-	-
H-06-Corridor	120	-	-
H-06-Corridor	120	-	-
H-07-Corridor	120	-	-
H-07-Corridor	120	-	-
H-08-Corridor	120	-	-
H-08-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	582.2	582.2
External area [m^2]	346.7	346.7
Weather	LON	LON
Infiltration [m^3/hm^2 @ 50Pa]	3	3
Average conductance [W/K]	58.01	132.27
Average U-value [W/m^2K]	0.17	0.38
Alpha value* [%]	21.2	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	1.35	2.6
Cooling	0	0
Auxiliary	0	0
Lighting	5.66	8.48
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.01**	**11.07**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	2.53	3.66
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.53*	*3.66*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	4.85	13.18
Primary energy [kWh_{PE}/m^2]	6.76	11.16
Total emissions [kg/m^2]	0.66	1.08

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	4.9	0	1.3	0	0	1	0	1	0
	Notional	13.2	0	2.6	0	0	1.41	0	----	---

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.66 Block J1J2

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Residential_Corridor_Aylesham Centre_Block J1J2 _Be Green — As designed

Date: Sun Dec 01 00:43:33 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 70.37

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2.annum$	0.95	
Building CO_2 emission rate (BER), $kgCO_2/m^2.annum$	0.6	
Target primary energy rate (TPER), $kWh_{PE}/m^2.annum$	10.11	
Building primary energy rate (BPER), $kWh_{PE}/m^2.annum$	6.15	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	J100001A:Surf[1]
Floors	0.18	0.11	0.11	J100001A:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	BJ0000C5:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	J2000003:Surf[2]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
J1-00-Lobby	120	-	-
J1-00-Corridor	120	-	-
J1-00-Circulation	120	-	-
J1-00-Lobby-02	120	-	-
J1-00-Lobby-01	120	-	-
J1-00-Circulation	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
J2-00-01-Lobby	120	-	-
BJ1-00-Corridor	120	-	-
BJ1-01-Lobby	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
BJ2-02-Corridor	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ2-02-Lift Lobby	120	-	-
BJ2-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-02-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-L11-Corridor	120	-	-
BJ1-01-Corridor	120	-	-
BJ1-01-Corridor	120	-	-
BJ2-00-Corridor	120	-	-
BJ2-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	1196.3	1196.3
External area [m²]	315.9	315.9
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	56.12	82.99
Average U-value [W/m²K]	0.18	0.26
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.72	0.7
Cooling	0	0
Auxiliary	0	0
Lighting	6.39	8.06
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.11**	**8.75**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	3.01	1.94
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*3.01*	*1.94*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	2.59	3.53
Primary energy [kWh_{PE}/m²]	6.15	10.11
Total emissions [kg/m²]	0.6	0.95

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	2.6	0	0.7	0	0	1	0	1	0
	Notional	3.5	0	0.7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.67 Block K

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Block K Communal Be Green As designed

Date: Sun Dec 01 15:55:11 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.26
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.26
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m^2]: 112.08

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	1	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.64	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	10.34	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	6.66	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	C000004A:Surf[2]
Floors	0.18	0.11	0.11	C0000089:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	C000004A:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	C000004A:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m^2K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridor Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
K-08-Circulation	120	-	-
K-08-Lift Lobby	120	-	-
K-09-Lift Lobby	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-00-Circulation-	120	-	-
K-01-Circulation-	120	-	-
K-01-Corridor	120	-	-
K-01-Lobby	120	-	-
K-02-Corridor	120	-	-
K-02-Corridor	120	-	-
K-02-Lobby	120	-	-
K-03-Corridor	120	-	-
K-03-Corridor	120	-	-
K-03-Lobby	120	-	-
K-04-Corridor	120	-	-
K-04-Corridor	120	-	-
K-04-Lobby	120	-	-
K-05-Corridor	120	-	-
K-05-Corridor	120	-	-
K-05-Lobby	120	-	-
K-06-Corridor	120	-	-
K-06-Corridor	120	-	-
K-06-Lobby	120	-	-
K-07-Corridor	120	-	-
K-07-Corridor	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
K-07-Lobby	120	-	-
K-08-Circulation	120	-	-
K-08-F11-Corridor	120	-	-
K-09-12-Corridor	120	-	-
K-09-11-Corridor	120	-	-
K-09-10-Corridor	120	-	-
K-09-09-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	1120.8	1120.8
External area [m^2]	545.1	545.1
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	119.27	227.05
Average U-value [W/m^2K]	0.22	0.42
Alpha value* [%]	18.16	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	1.38	2.46
Cooling	0	0
Auxiliary	0	0
Lighting	5.04	7.71
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.42**	**10.17**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	1.98	3.29
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*1.98*	*3.29*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	4.96	12.48
Primary energy [kWh_{PE}/m^2]	6.66	10.34
Total emissions [kg/m^2]	0.64	1

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	5	0	1.4	0	0	1	0	1	0
	Notional	12.5	0	2.5	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.68 Block L

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block L_Resi Communal Be Green — As designed

Date: Sun Dec 01 16:48:00 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 79.46

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	0.93	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.56	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	9.54	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	5.91	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	L0000009:Surf[1]
Floors	0.18	0.11	0.11	L0000077:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	L100001C:Surf[2]
Windows** and roof windows	1.6	1.3	1.3	L0000009:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m^2]**
Standard value	95	80	0.3
L-02-Corridor	120	-	-
L-00-Corridor	120	-	-
L-00-Corridor	120	-	-
L-00-Corridor	120	-	-
L-01-Corridor	120	-	-
L-03-Corridor	120	-	-
L-04-Corridor	120	-	-
L-05-Corridor	120	-	-
L-06-Corridor	120	-	-
L-07-Corridor	120	-	-
L-08-Corridor	120	-	-
L-09-Corridor	120	-	-
L-10-Corridor	120	-	-
L-00-Corridor	120	-	-
L-01-Corridor	120	-	-
L-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	874.1	874.1
External area [m^2]	402.7	402.7
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	63.67	185.27
Average U-value [W/m^2K]	0.16	0.46
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	0.61	2.32
Cooling	0	0
Auxiliary	0	0
Lighting	5.48	7
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**6.09**	**9.32**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	2.12	2.99
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.12*	*2.99*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	2.21	11.8
Primary energy [kWh_{PE}/m^2]	5.91	9.54
Total emissions [kg/m^2]	0.56	0.93

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	2.2	0	0.6	0	0	1	0	1	0
	Notional	11.8	0	2.3	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.69 Block M

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block M Communal Be Green — As designed

Date: Sun Dec 01 17:07:56 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certification tool

Calculation engine: Apache
Calculation engine version: 7.0.26
Interface to calculation engine: IES Virtual Environment
Interface to calculation engine version: 7.0.26
BRUKL compliance module version: v6.1.e.1

Certifier details

Name: ME Engineers
Telephone number: Phone
Address: Street Address, City, Postcode

Foundation area [m²]: 105.12

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	0.82	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.51	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	8.78	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	5.43	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	M0000004:Surf[0]
Floors	0.18	0.11	0.11	M00000F4:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	M00002BA:Surf[0]
Windows** and roof windows	1.6	-	-	No windows, galzed doors, or roof windows in building
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]
$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]
* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.
** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.
^ For fire doors, limiting U-value is 1.8 W/m²K
NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
M-02-Circulation	120	-	-
M-02-Lift Lobby	120	-	-
M-00-Concierge Lobby	120	-	-
M-00-Corridor	120	-	-
M-00-Sterile Lobby	120	-	-
M-00-Corridor	120	-	-
M-03-Lift Lobby	120	-	-
M-03-Circulation	120	-	-
M-04-Lift Lobby	120	-	-
M-04-Circulation	120	-	-
M-05-Lift Lobby	120	-	-
M-05-Circulation	120	-	-
M-06-Lift Lobby	120	-	-
M-06-Circulation	120	-	-
M-07-Lift Lobby	120	-	-
M-07-Circulation	120	-	-
M-08-Lift Lobby	120	-	-
M-08-Circulation	120	-	-
M-09-Lift Lobby	120	-	-
M-09-Circulation	120	-	-
M-10-Lift Lobby	120	-	-
M-10-Circulation	120	-	-
M-11-Lift Lobby	120	-	-
M-11-Circulation	120	-	-
M-12-Lift Lobby	120	-	-
M-12-Circulation	120	-	-
M-13-Lift Lobby	120	-	-
M-13-Circulation	120	-	-
M-14-Lift Lobby	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
M-14-Circulation	120	-	-
M-15-Lift Lobby	120	-	-
M-15-Circulation	120	-	-
M-16-Lift Lobby	120	-	-
M-16-Circulation	120	-	-
M-17-Lift Lobby	120	-	-
M-17-Circulation	120	-	-
M-18-Lift Lobby	120	-	-
M-18-Circulation	120	-	-
M-19-Corridor-01	120	-	-
M-19-Corridor-01	120	-	-
M-20-Corridor-01	120	-	-
M-20-Corridor-01	120	-	-
M-00-Circulation	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	2207.5	2207.5
External area [m²]	362.3	362.3
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	42.25	85.49
Average U-value [W/m²K]	0.12	0.24
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	0.05	0.12
Cooling	0	0
Auxiliary	0	0
Lighting	5.73	7.4
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**5.78**	**7.51**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	2.1	1.57
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*2.1*	*1.57*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	0.16	0.59
Primary energy [kWh_{PE}/m²]	5.43	8.78
Total emissions [kg/m²]	0.51	0.82

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	0.2	0	0.1	0	0	0.84	0	1	0
	Notional	0.6	0	0.1	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.70 Block N

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block N Communal Be Green — As designed

Date: Mon Mar 17 12:45:55 2025

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.27

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.27

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 61.35

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	1.75	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	1.06	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	17.85	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	10.26	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	N0000054:Surf[1]
Floors	0.18	0.11	0.11	N0000054:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	N0000113:Surf[1]
Windows** and roof windows	1.6	1.31	1.31	N0000083:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
m³/(h.m²) at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	**Cooling efficiency**	**Radiant efficiency**	**SFP [W/(l/s)]**	**HR efficiency**
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	**General luminaire**	**Display light source**	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
N-00-Lobby	120	-	-
N-00-Corridor	120	-	-
N-01-Corridor	120	-	-
N-01-Circulation	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-00-Corridor-01	120	-	-
N-07-Corridor-01	120	-	-
N-07-Corridor-01	120	-	-
N-08-Corridor-01	120	-	-
N-08-Corridor-01	120	-	-
N-09-Corridor-01	120	-	-
N-09-Corridor-01	120	-	-
N-10-Corridor-01	120	-	-
N-10-Corridor-01	120	-	-
N-11-Corridor-01	120	-	-
N-11-Corridor-01	120	-	-
N-12-Corridor-01	120	-	-
N-12-Corridor-01	120	-	-
N-00-Corridor	120	-	-
N-00-Corridor	120	-	-
N-00-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	797.5	797.5
External area [m²]	608.7	608.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	162.18	310.41
Average U-value [W/m²K]	0.27	0.51
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	6.7	7.03
Cooling	0	0
Auxiliary	0	0
Lighting	4.55	7.23
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**11.25**	**14.27**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	4.65	2.53
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*4.65*	*2.53*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	20.31	35.72
Primary energy [kWh_{PE}/m²]	10.26	17.85
Total emissions [kg/m²]	1.06	1.75

HVAC Systems Performance

System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	20.3	0	6.7	0	0	0.84	0	1	0
	Notional	35.7	0	7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

12.71 Block P

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block P Communal_Be Green — As designed

Date: Sun Dec 01 18:04:35 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 74.27

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2$annum	1.07	
Building CO_2 emission rate (BER), $kgCO_2/m^2$annum	0.66	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	11.12	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	6.64	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	P000007C:Surf[1]
Floors	0.18	0.11	0.11	P000007C:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	P000019F:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	P00001A5:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Corridors Heaters

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.2	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

"No HWS in project, or hot water is provided by HVAC system"

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

General lighting and display lighting	General luminaire	Display light source	
Zone name	**Efficacy [lm/W]**	**Efficacy [lm/W]**	**Power density [W/m²]**
Standard value	95	80	0.3
P-02-Circulaion	120	-	-
P-00-Lobby	120	-	-
P-00-Circulation	120	-	-
P-00-Circulation	120	-	-
P-01-Corridor	120	-	-
P-03-Circulation	120	-	-
P-04-Circulation	120	-	-
P-05-Circulation	120	-	-
P-06-Circulation	120	-	-
P-07-Circulation	120	-	-
P-08-Circulation	120	-	-
P-09-Circulation	120	-	-
P-10-Circulation	120	-	-
P-11-Circulation	120	-	-
P-11-Circulation	120	-	-
P-11-Circulation	120	-	-
P-10-Circulation	120	-	-
P-10-Circulation	120	-	-
P-09-Circulation	120	-	-
P-09-Circulation	120	-	-
P-08-Circulation	120	-	-
P-07-Circulation	120	-	-
P-07-Circulation	120	-	-
P-06-Circulation	120	-	-
P-06-Circulation	120	-	-
P-05-Circulation	120	-	-
P-04-Circulation	120	-	-
P-04-Circulation	120	-	-
P-03-Circulation	120	-	-

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
P-03-Circulation	120	-	-
P-02-Circulation	120	-	-
P-02-Circulation	120	-	-
P-05-Circulation	120	-	-
P-01-Corridor	120	-	-

The spaces in the building should have appropriate passive control measures to limit the effects of solar gains in summer

There are no zones in the building where the solar gain check is applicable.

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m²]	891.2	891.2
External area [m²]	441.7	441.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	3	3
Average conductance [W/K]	99.76	201.96
Average U-value [W/m²K]	0.23	0.46
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	2.09	2.71
Cooling	0	0
Auxiliary	0	0
Lighting	5.62	7.41
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**7.71**	**10.13**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.
** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	3.33	2.74
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*3.33*	*2.74*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	6.34	13.78
Primary energy [kWh_{PE}/m²]	6.64	11.12
Total emissions [kg/m²]	0.66	1.07

12.72 Block Q

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Aylesham Centre_Block Q_Be Green PV12 — As designed

Date: Sat Nov 30 19:00:24 2024

Administrative information

Building Details

Address: Address 1, City, Postcode

Certifier details

Name: ME Engineers

Telephone number: Phone

Address: Street Address, City, Postcode

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m^2]: 72.56

The CO_2 emission and primary energy rates of the building must not exceed the targets

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	1.05	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	0.63	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	10.35	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	5.96	
Do the building's emission and primary energy rates exceed the targets?	BER =< TER	BPER =< TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.15	0.15	Q0000003:Surf[0]
Floors	0.18	0.11	0.11	P0000071:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.11	0.11	Q00000B4:Surf[0]
Windows** and roof windows	1.6	1.3	1.3	Q00000BD:Surf[0]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	-	-	No personnel doors in building
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [$W/(m^2K)$] — $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [$W/(m^2K)$]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [$W/(m^2K)$]

* Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.

** Display windows and similar glazing are excluded from the U-value check. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m^2K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	3

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m^2]	435.3	435.3
External area [m^2]	343.5	343.5
Weather	LON	LON
Infiltration [m^3/hm^2@ 50Pa]	3	3
Average conductance [W/K]	72.32	139.99
Average U-value [W/m^2K]	0.21	0.41
Alpha value* [%]	25	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
100	**Residential Spaces**
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger Terminals
	Others: Emergency Services
	Others: Miscellaneous 24hr Activities
	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m^2]

	Actual	Notional
Heating	3.64	4.69
Cooling	0	0
Auxiliary	0	0
Lighting	5.75	7.56
Hot water	0	0
Equipment*	13.13	13.13
TOTAL**	**9.38**	**12.25**

* Energy used by equipment does not count towards the total for consumption or calculating emissions.

** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m^2]

	Actual	Notional
Photovoltaic systems	5.53	5.48
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*5.53*	*5.48*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m^2]	13.1	23.8
Primary energy [kWh_{PE}/m^2]	5.96	10.35
Total emissions [kg/m^2]	0.63	1.05

HVAC Systems Performance										
System Type		Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	13.1	0	3.6	0	0	1	0	1	0
	Notional	23.8	0	4.7	0	0	1.41	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

APPENDIX G Overheating Assessment Result

12.73 Current Weather File-DSY 1

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	0.8	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	0.9	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.0	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	0.8	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	0.9	Pass
L11 D3 LR	Living Room/Kitchen	1.3	Pass
L11 D4 LR	Living Room/Kitchen	1.8	Pass
L11 D2 LR	Living Room/Kitchen	1.6	Pass
L12 D3 LR	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.9	Pass
LR	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.8	Pass
L12 D3 LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.6	Pass
L12 D3 LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.7	Pass
L12 D3 LR	Living Room/Kitchen	1.1	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	1.3	Pass
L12 D3 LR	Living Room/Kitchen	1.4	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.3	Pass
L12 D3 LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.0	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.0	Pass
L12 D3 LR	Living Room/Kitchen	1.4	Pass
LR	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	2.0	Pass
L12 D3 LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	0.8	Pass
LR	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	0.9	Pass
Living Room	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.0	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	0.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range	Status
		> 26.00	
LKD	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	0.9	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.1	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range	Status
		> 26.00	
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.0	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.4	Pass
LR	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
L11 D1 B2	Bedroom	2.6	Pass
L11 D2 B1	Bedroom	2.0	Pass
L11 D3 B1	Bedroom	2.2	Pass
L11 D4 B1	Bedroom	1.9	Pass
L11 D4 B2	Bedroom	2.0	Pass
L11 D5 LR / B1	Living Room/Kitchen	2.0	Pass
L11 D6 B3	Bedroom	2.1	Pass
L12 D2 B2	Bedroom	1.8	Pass
L12 D3 B1	Bedroom	1.8	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.6	Pass
L12 D6 B1	Bedroom	1.5	Pass
L12 D2 B1	Bedroom	1.6	Pass
L12 D2 B2	Bedroom	1.6	Pass
L12 D2 B1	Bedroom	2.1	Pass
L12 D1 B2	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
L12 D4 B1	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
L12 D2 B2	Bedroom	1.9	Pass
L12 D3 B1	Bedroom	1.9	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.7	Pass
L12 D6 B1	Bedroom	1.7	Pass
L12 D2 B1	Bedroom	1.6	Pass
L12 D1 B2	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
L12 D4 B1	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
L12 D2 B2	Bedroom	2.6	Pass
L12 D3 B1	Bedroom	2.0	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.2	Pass
L12 D6 B1	Bedroom	1.9	Pass
L12 D2 B1	Bedroom	2.0	Pass
L12 D1 B2	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
L12 D4 B1	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
L12 D2 B2	Bedroom	1.6	Pass
L12 D3 B1	Bedroom	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D5 LR / B1	Living Room/Kitchen	2.1	Pass
L12 D6 B1	Bedroom	1.7	Pass
L12 D2 B1	Bedroom	2.1	Pass
L12 D1 B2	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
L12 D4 B1	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
L12 D2 B2	Bedroom	1.9	Pass
L12 D3 B1	Bedroom	1.9	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.3	Pass
L12 D6 B1	Bedroom	1.7	Pass
L12 D2 B1	Bedroom	1.0	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
L12 D4 B1	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
L12 D2 B2	Bedroom	2.3	Pass
L12 D3 B1	Bedroom	1.7	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.9	Pass
L12 D6 B1	Bedroom	0.8	Pass
L12 D2 B1	Bedroom	1.3	Pass
L12 D1 B2	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
L12 D4 B1	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
L12 D2 B2	Bedroom	0.9	Pass
L12 D3 B1	Bedroom	1.3	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.8	Pass
L12 D6 B1	Bedroom	1.6	Pass
L12 D2 B1	Bedroom	1.6	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
L12 D4 B1	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
L12 D2 B2	Bedroom	2.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D3 B1	Bedroom	2.4	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.4	Pass
L12 D6 B1	Bedroom	2.7	Pass
L12 D2 B1	Bedroom	2.0	Pass
L12 D1 B2	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
L12 D4 B1	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
L12 D6 B1	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
L12 D2 B2	Bedroom	1.6	Pass
L12 D2 B1	Bedroom	2.1	Pass
L12 D1 B2	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
L12 D6 B1	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom LKD	Living Room/Kitchen	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range	Status
		> 26.00	
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom LKD	Living Room/Kitchen	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom LKD	Living Room/Kitchen	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range	Status
		> 26.00	
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom LKD	Living Room/Kitchen	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom LKD	Living Room/Kitchen	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.8	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	0.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom LKD	Living Room/Kitchen	1.8	Pass
Bedroom	Bedroom	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom LKD	Living Room/Kitchen	1.8	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.1	Pass

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Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.0	Marginally fail
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.0	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.0	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.1	Pass
L11 D3 LR	Living Room/Kitchen	1.5	Pass
L11 D4 LR	Living Room/Kitchen	2.0	Pass
L11 D2 LR	Living Room/Kitchen	1.8	Pass
L12 D3 LR	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail
LR	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	2.0	Pass
L12 D3 LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D3 LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.9	Pass
L12 D3 LR	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.5	Pass
LR	Living Room/Kitchen	1.5	Pass
L12 D3 LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.5	Pass
L12 D3 LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.2	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.2	Pass
L12 D3 LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.5	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.2	Pass
L12 D3 LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.0	Pass
LR	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.9	Pass
LR	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.2	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.0	Pass
LKD	Living Room/Kitchen	1.5	Pass
LR	Living Room/Kitchen	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.1	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.2	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
L11 D1 B2	Bedroom	2.8	Pass
L11 D2 B1	Bedroom	2.2	Pass
L11 D3 B1	Bedroom	2.4	Pass
L11 D4 B1	Bedroom	2.1	Pass
L11 D4 B2	Bedroom	2.2	Pass
L11 D5 LR / B1	Living Room/Kitchen	2.2	Pass
L11 D6 B3	Bedroom	2.3	Pass
L12 D2 B2	Bedroom	2.0	Pass
L12 D3 B1	Bedroom	2.0	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.8	Pass
L12 D6 B1	Bedroom	1.7	Pass
L12 D2 B1	Bedroom	1.8	Pass
L12 D2 B2	Bedroom	1.8	Pass
L12 D2 B1	Bedroom	2.3	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.2	Pass
Bedroom LKD	Living Room/Kitchen	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
L12 D4 B1	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
L12 D2 B2	Bedroom	2.1	Pass
L12 D3 B1	Bedroom	2.1	Pass
L12 D5 LR / B1	Living Room/Kitchen	1.9	Pass
L12 D6 B1	Bedroom	1.9	Pass
L12 D2 B1	Bedroom	1.8	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
L12 D4 B1	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
L12 D2 B2	Bedroom	2.8	Pass
L12 D3 B1	Bedroom	2.2	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.4	Pass
L12 D6 B1	Bedroom	2.1	Pass
L12 D2 B1	Bedroom	2.2	Pass
L12 D1 B2	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
L12 D4 B1	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
L12 D2 B2	Bedroom	1.8	Pass
L12 D3 B1	Bedroom	1.8	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.3	Pass
L12 D6 B1	Bedroom	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D2 B1	Bedroom	2.3	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
L12 D4 B1	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
L12 D2 B2	Bedroom	2.1	Pass
L12 D3 B1	Bedroom	2.1	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.5	Pass
L12 D6 B1	Bedroom	1.9	Pass
L12 D2 B1	Bedroom	1.2	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
L12 D4 B1	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
L12 D2 B2	Bedroom	2.5	Pass
L12 D3 B1	Bedroom	1.9	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.1	Pass
L12 D6 B1	Bedroom	1.0	Pass
L12 D2 B1	Bedroom	1.5	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
L12 D4 B1	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
L12 D2 B2	Bedroom	1.1	Pass
L12 D3 B1	Bedroom	1.5	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.0	Pass
L12 D6 B1	Bedroom	1.8	Pass
L12 D2 B1	Bedroom	1.8	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
L12 D4 B1	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
L12 D2 B2	Bedroom	3.1	Marginally fail
L12 D3 B1	Bedroom	2.6	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D6 B1	Bedroom	2.9	Pass
L12 D2 B1	Bedroom	2.2	Pass
L12 D1 B2	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
L12 D4 B1	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
L12 D6 B1	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
L12 D2 B2	Bedroom	1.8	Pass
L12 D2 B1	Bedroom	2.3	Pass
L12 D1 B2	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
L12 D6 B1	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom LKD	Living Room/Kitchen	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom LKD	Living Room/Kitchen	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom LKD	Living Room/Kitchen	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom LKD	Living Room/Kitchen	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom LKD	Living Room/Kitchen	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom LKD	Living Room/Kitchen	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.0	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom LKD	Living Room/Kitchen	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom LKD	Living Room/Kitchen	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass

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Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.2	Pass
L11 D3 LR	Living Room/Kitchen	1.6	Pass
L11 D4 LR	Living Room/Kitchen	2.2	Pass
L11 D2 LR	Living Room/Kitchen	1.9	Pass
L12 D3 LR	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail
LR	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.4	Pass
LR	Living Room/Kitchen	2.4	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	2.2	Pass
L12 D3 LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D3 LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.1	Pass
L12 D3 LR	Living Room/Kitchen	1.4	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	1.6	Pass
L12 D3 LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.7	Pass
L12 D3 LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.4	Pass
L12 D3 LR	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.4	Pass
L12 D3 LR	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.1	Pass
L12 D3 LR	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.1	Pass
LR	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.2	Pass
Living Room	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail
LR	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	1.7	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.1	Pass
LKD	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.2	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	3.1	Marginally fail
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	1.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	1.7	Pass
LR	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
L11 D1 B2	Bedroom	3.0	Pass
L11 D2 B1	Bedroom	2.4	Pass
L11 D3 B1	Bedroom	2.6	Pass
L11 D4 B1	Bedroom	2.3	Pass
L11 D4 B2	Bedroom	2.4	Pass
L11 D5 LR / B1	Living Room/Kitchen	2.4	Pass
L11 D6 B3	Bedroom	2.5	Pass
L12 D2 B2	Bedroom	2.2	Pass
L12 D3 B1	Bedroom	2.2	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.0	Pass
L12 D6 B1	Bedroom	1.8	Pass
L12 D2 B1	Bedroom	1.9	Pass
L12 D2 B2	Bedroom	2.0	Pass
L12 D2 B1	Bedroom	2.5	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.4	Pass
Bedroom LKD	Living Room/Kitchen	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
L12 D4 B1	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
L12 D2 B2	Bedroom	2.3	Pass
L12 D3 B1	Bedroom	2.3	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.1	Pass
L12 D6 B1	Bedroom	2.1	Pass
L12 D2 B1	Bedroom	2.0	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
L12 D4 B1	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
L12 D2 B2	Bedroom	3.0	Pass
L12 D3 B1	Bedroom	2.4	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.6	Pass
L12 D6 B1	Bedroom	2.3	Pass
L12 D2 B1	Bedroom	2.4	Pass
L12 D1 B2	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
L12 D4 B1	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
L12 D2 B2	Bedroom	1.9	Pass
L12 D3 B1	Bedroom	2.0	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.5	Pass
L12 D6 B1	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D2 B1	Bedroom	2.5	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
L12 D4 B1	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
L12 D2 B2	Bedroom	2.3	Pass
L12 D3 B1	Bedroom	2.3	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.7	Pass
L12 D6 B1	Bedroom	2.1	Pass
L12 D2 B1	Bedroom	1.3	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
L12 D4 B1	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
L12 D2 B2	Bedroom	2.7	Pass
L12 D3 B1	Bedroom	2.1	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.3	Pass
L12 D6 B1	Bedroom	1.1	Pass
L12 D2 B1	Bedroom	1.6	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
L12 D4 B1	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
L12 D2 B2	Bedroom	1.2	Pass
L12 D3 B1	Bedroom	1.6	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.2	Pass
L12 D6 B1	Bedroom	1.9	Pass
L12 D2 B1	Bedroom	2.0	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
L12 D4 B1	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
L12 D2 B2	Bedroom	3.3	Marginally fail
L12 D3 B1	Bedroom	2.8	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D6 B1	Bedroom	3.1	Marginally fail
L12 D2 B1	Bedroom	2.4	Pass
L12 D1 B2	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
L12 D4 B1	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
L12 D6 B1	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
L12 D2 B2	Bedroom	2.0	Pass
L12 D2 B1	Bedroom	2.5	Pass
L12 D1 B2	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
L12 D6 B1	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom LKD	Living Room/Kitchen	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom LKD	Living Room/Kitchen	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom LKD	Living Room/Kitchen	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom LKD	Living Room/Kitchen	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom LKD	Living Room/Kitchen	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	1.7	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.1	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.2	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom LKD	Living Room/Kitchen	2.2	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	3.1	Marginally fail
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom LKD	Living Room/Kitchen	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass

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Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.5	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.5	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.1	Marginally fail
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	3.5	Marginally fail
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	3.5	Marginally fail
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.2	Marginally fail
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	3.6	Fail
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	3.6	Fail
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.4	Pass
Living Room	Living Room/Kitchen	3.3	Marginally fail
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	2.4	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.7	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.8	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	2.0	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	3.0	Pass
Living Room	Living Room/Kitchen	3.4	Marginally fail
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.2	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.7	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.6	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	1.9	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	1.5	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.6	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.3	Pass
Living Room	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
L11 D3 LR	Living Room/Kitchen	1.8	Pass
L11 D4 LR	Living Room/Kitchen	2.4	Pass
L11 D2 LR	Living Room/Kitchen	2.1	Pass
L12 D3 LR	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	3.5	Marginally fail
LR	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	3.2	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.6	Pass
LR	Living Room/Kitchen	2.6	Pass
LR	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.4	Pass
LR	Living Room/Kitchen	2.4	Pass
L12 D3 LR	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	2.0	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D3 LR	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.7	Pass
LR	Living Room/Kitchen	2.3	Pass
L12 D3 LR	Living Room/Kitchen	1.6	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	1.8	Pass
L12 D3 LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.9	Pass
L12 D3 LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.5	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.6	Pass
L12 D3 LR	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.6	Pass
L12 D3 LR	Living Room/Kitchen	2.9	Pass
LR	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	1.3	Pass
LR	Living Room/Kitchen	1.8	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.1	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	2.9	Pass
Living Room	Living Room/Kitchen	2.3	Pass
Living Room	Living Room/Kitchen	2.5	Pass
Living Room	Living Room/Kitchen	1.4	Pass
Living Room	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.4	Pass
LR	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.2	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	3.5	Marginally fail

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail
LR	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	3.2	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LR	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.9	Pass
LR	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	1.9	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.3	Pass
LKD	Living Room/Kitchen	1.8	Pass
LR	Living Room/Kitchen	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	1.4	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	3.5	Marginally fail
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.0	Pass
LKD	Living Room/Kitchen	3.3	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	3.2	Marginally fail
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.8	Pass
LKD	Living Room/Kitchen	2.5	Pass
LR	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.4	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.0	Pass
LKD	Living Room/Kitchen	2.1	Pass
LKD	Living Room/Kitchen	2.2	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.7	Pass
LKD	Living Room/Kitchen	2.3	Pass
LR	Living Room/Kitchen	1.6	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	1.9	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	1.5	Pass
LKD	Living Room/Kitchen	2.5	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	1.9	Pass
LR	Living Room/Kitchen	1.8	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.6	Pass
LKD	Living Room/Kitchen	2.9	Pass
LKD	Living Room/Kitchen	2.3	Pass
LKD	Living Room/Kitchen	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
L11 D1 B2	Bedroom	3.2	Marginally fail
L11 D2 B1	Bedroom	2.6	Pass
L11 D3 B1	Bedroom	2.8	Pass
L11 D4 B1	Bedroom	2.5	Pass
L11 D4 B2	Bedroom	2.6	Pass
L11 D5 LR / B1	Living Room/Kitchen	2.6	Pass
L11 D6 B3	Bedroom	2.7	Pass
L12 D2 B2	Bedroom	2.4	Pass
L12 D3 B1	Bedroom	2.4	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.2	Pass
L12 D6 B1	Bedroom	2.0	Pass
L12 D2 B1	Bedroom	2.1	Pass
L12 D2 B2	Bedroom	2.2	Pass
L12 D2 B1	Bedroom	2.7	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.6	Pass
Bedroom LKD	Living Room/Kitchen	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
L12 D1 B2	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
L12 D4 B1	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
L12 D2 B2	Bedroom	2.5	Pass
L12 D3 B1	Bedroom	2.5	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.3	Pass
L12 D6 B1	Bedroom	2.3	Pass
L12 D2 B1	Bedroom	2.2	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
L12 D4 B1	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
L12 D2 B2	Bedroom	3.2	Marginally fail
L12 D3 B1	Bedroom	2.6	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.8	Pass
L12 D6 B1	Bedroom	2.5	Pass
L12 D2 B1	Bedroom	2.6	Pass
L12 D1 B2	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
L12 D4 B1	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
L12 D2 B2	Bedroom	2.1	Pass
L12 D3 B1	Bedroom	2.2	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.7	Pass
L12 D6 B1	Bedroom	2.3	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D2 B1	Bedroom	2.7	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
L12 D4 B1	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
L12 D2 B2	Bedroom	2.5	Pass
L12 D3 B1	Bedroom	2.5	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.9	Pass
L12 D6 B1	Bedroom	2.3	Pass
L12 D2 B1	Bedroom	1.5	Pass
L12 D1 B2	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
L12 D4 B1	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
L12 D2 B2	Bedroom	2.9	Pass
L12 D3 B1	Bedroom	2.3	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.5	Pass
L12 D6 B1	Bedroom	1.3	Pass
L12 D2 B1	Bedroom	1.8	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
L12 D4 B1	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
L12 D2 B2	Bedroom	1.4	Pass
L12 D3 B1	Bedroom	1.8	Pass
L12 D5 LR / B1	Living Room/Kitchen	2.4	Pass
L12 D6 B1	Bedroom	2.1	Pass
L12 D2 B1	Bedroom	2.2	Pass
L12 D1 B2	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
L12 D4 B1	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
L12 D2 B2	Bedroom	3.5	Marginally fail
L12 D3 B1	Bedroom	3.0	Pass
L12 D5 LR / B1	Living Room/Kitchen	3.0	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
L12 D6 B1	Bedroom	3.3	Marginally fail
L12 D2 B1	Bedroom	2.6	Pass
L12 D1 B2	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
L12 D4 B1	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
L12 D6 B1	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
L12 D2 B2	Bedroom	2.2	Pass
L12 D2 B1	Bedroom	2.7	Pass
L12 D1 B2	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
L12 D6 B1	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom LKD	Living Room/Kitchen	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom LKD	Living Room/Kitchen	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom LKD	Living Room/Kitchen	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom LKD	Living Room/Kitchen	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.6	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom LKD	Living Room/Kitchen	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	1.5	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	1.9	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.3	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.9	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	1.4	Pass
Bedroom	Bedroom	1.8	Pass
Bedroom LKD	Living Room/Kitchen	2.4	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.5	Pass

Space Name (Real)	Thermal Template (Real)	Air temperature (°C) - % hours in range > 26.00	Status
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	3.5	Marginally fail
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.0	Pass
Bedroom	Bedroom	3.3	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	3.2	Marginally fail
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.8	Pass
Bedroom	Bedroom	2.5	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.6	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.4	Pass
Bedroom LKD	Living Room/Kitchen	2.4	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.0	Pass
Bedroom	Bedroom	2.1	Pass
Bedroom	Bedroom	2.2	Pass
Bedroom	Bedroom	2.7	Pass
Bedroom	Bedroom	2.3	Pass
Bedroom	Bedroom	2.7	Pass

APPENDIX H GLA Carbon Emissions Reporting Spreadsheet

The applicant should complete all the light blue cells including information on the modelled units, the area per unit, the number of units, the TER/DER/BER and the TFEE/DFEE.

RESIDENTIAL CO_2 ANALYSIS (PART L1)

				Baseline		'Be Lean'	'Be Clean'	'Be Green'	Fabric Energy Efficiency (FEE)		Baseline		'Be Lean'			'Be Clean'			'Be Green'	
Unit identifier (e.g. plot number, dwelling type etc.)	Model total floor area	Number of units	Total area represented by model	TER	Energy saving/generation technologies (-)	DER	DER	DER	Target Fabric Energy Efficiency	Dwelling Fabric Energy Efficiency	Part L 2021 CO_2 emissions	Energy saving/generation technologies	Part L 2021 CO_2 emissions	Part L 2021 CO_2 emissions with Notional PV savings included	'Be Lean' savings	Part L 2021 CO_2 emissions	Part L 2021 CO_2 emissions with Notional PV savings included	'Be Clean' savings	Part L 2021 CO_2 emissions	'Be Green' savings
	(m^2) (Row 4)		(m^2)	($kgCO_2$ / m^2) (Row 273)	($kgCO_2$ p.a.) (Row 269)	($kgCO_2$ / m^2) (Row 273 or 384)	($kgCO_2$ / m^2) (Row 273 or 384)	($kgCO_2$ / m^2) (Row 273 or 384)	(kWh/m^2)	(kWh/m^2)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)
Block ABC	*4581*	*65*	*4581*	**13.46**	**-4203.11**	**11.39**	**11.39**	**4.88**	31.02	30.88	**61,660**	**-4,203**	**52,178**	**47,974**	**13,686**	**52,178**	**47,974**	**0**	**22,355**	**25,619**
Block E	*4643*	*79*	*4643*	**13.67**	**-2710.91**	**11.68**	**11.68**	**4.96**	27.42	28.58	**63,470**	**-2,711**	**54,230**	**51,519**	**11,950**	**54,230**	**51,519**	**0**	**23,029**	**28,490**
Block F	*1704*	*20*	*1704*	**11.99**	**-1824.01**	**9.97**	**9.97**	**4.13**	28.42	29.15	**20,431**	**-1,824**	**16,989**	**15,165**	**5,266**	**16,989**	**15,165**	**0**	**7,038**	**8,127**
Block G	*4811*	*71*	*4811*	**13.16**	**-2574.91**	**10.67**	**10.67**	**4.68**	27.53	28.72	**63,313**	**-2,575**	**51,333**	**48,758**	**14,554**	**51,333**	**48,758**	**0**	**22,515**	**26,243**
Block H	*3451*	*43*	*3451*	**12.19**	**-2462.70**	**9.93**	**9.93**	**4.37**	26.87	26.96	**42,068**	**-2,463**	**34,268**	**31,806**	**10,262**	**34,268**	**31,806**	**0**	**15,081**	**16,725**
Block J1J2	*8851*	*129*	*8851*	**12.64**	**-3552.88**	**10.29**	**10.29**	**4.46**	23.74	24.64	**111,877**	**-3,553**	**91,077**	**87,524**	**24,353**	**91,077**	**87,524**	**0**	**39,475**	**48,048**
Block K	*5897*	*85*	*5897*	**12.39**	**-3787.39**	**10.14**	**10.14**	**4.41**	24.25	25.07	**73,064**	**-3,787**	**59,796**	**56,008**	**17,056**	**59,796**	**56,008**	**0**	**26,006**	**30,002**
Block L	*5675*	*85*	*5675*	**12.38**	**-3313.46**	**10.23**	**10.23**	**4.47**	24.05	24.80	**70,257**	**-3,313**	**58,055**	**54,742**	**15,515**	**58,055**	**54,742**	**0**	**25,367**	**29,375**
Block M	*10790*	*149*	*10790*	**12.88**	**-3464.97**	**9.92**	**9.92**	**4.39**	24.11	26.35	**138,975**	**-3,465**	**107,037**	**103,572**	**35,403**	**107,037**	**103,572**	**0**	**47,368**	**56,204**
Block N	*3632*	*64*	*3632*	**13.77**	**-1794.37**	**11.70**	**11.70**	**5.19**	24.39	24.99	**50,013**	**-1,794**	**42,494**	**40,700**	**9,313**	**42,494**	**40,700**	**0**	**18,850**	**21,850**
Block P	*4362*	*50*	*4362*	**11.60**	**-2334.60**	**9.23**	**9.23**	**3.91**	25.55	26.50	**50,599**	**-2,335**	**40,261**	**37,927**	**12,673**	**40,261**	**37,927**	**0**	**17,055**	**20,871**
Block Q	*2056*	*27*	*2056*	**12.22**	**-2200.80**	**10.39**	**10.39**	**4.57**	29.57	28.48	**25,124**	**-2,201**	**21,362**	**19,161**	**5,963**	**21,362**	**19,161**	**0**	**9,396**	**9,765**
Sum	**867**	**60,453**		**12.8**	**-3,093.9**	**10.4**	**10.4**	**4.5**	**25.7**	**26.6**	***770,850***	***-34,224***	***629,080***	***594,856***	***175,993***	***629,080***	***594,856***	***0***	***273,536***	***321,320***

NON-RESIDENTIAL CO_2 ANALYSIS (PART L2)

				Baseline		'Be Lean'	'Be Clean'	'Be Green'			Baseline		'Be Lean'			'Be Clean'			'Be Green'	
Building Use	Model Area	Number of units	Total area represented by model	BRUKL TER	BRUKL Displaced electricity (-)	BRUKL BER	BRUKL BER	BRUKL BER			Part L 2021 CO_2 emissions	Energy saving/generation technologies	Part L 2021 CO_2 emissions	Part L 2021 CO_2 emissions with Notional PV savings included	'Be Lean' savings	Part L 2021 CO_2 emissions	Part L 2021 CO_2 emissions with Notional PV savings included	'Be Clean' savings	Part L 2021 CO_2 emissions	'Be Green' savings
	(m^2)		(m^2)	($kgCO_2$ / m^2)	(kWh / m^2)	($kgCO_2$ / m^2)	($kgCO_2$ / m^2)	($kgCO_2$ / m^2)			($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)	($kgCO_2$ p.a.)
Block ABC - Com	*1245.2*	*1*	*1245.2*	**5.42**		**4.40**	**4.40**	**3.50**			**6,749**	**0.00**	**5,478.88**	**5,479**	**1,270**	**5,479**	**5,479**	**0**	**4,358**	**1,121**
Block D - Comme	*2725.3*	*1*	*2725.3*	**3.42**		**2.82**	**2.82**	**2.21**			**9,321**	**0.00**	**7,685.35**	**7,685**	**1,635**	**7,685**	**7,685**	**0**	**6,023**	**1,662**
Block E - Comme	*341*	*1*	*341*	**11.28**		**9.11**	**9.11**	**6.96**			**3,846**	**0.00**	**3,106.51**	**3,107**	**740**	**3,107**	**3,107**	**0**	**2,373**	**733**
Block F - Comme	*208.2*	*1*	*208.2*	**10.46**		**8.24**	**8.24**	**4.99**			**2,178**	**0.00**	**1,715.57**	**1,716**	**462**	**1,716**	**1,716**	**0**	**1,039**	**677**
Block G - Comme	*276.2*	*1*	*276.2*	**10.48**		**8.49**	**8.49**	**6.50**			**2,895**	**0.00**	**2,344.94**	**2,345**	**550**	**2,345**	**2,345**	**0**	**1,795**	**550**
Block H - Comme	*244.2*	*1*	*244.2*	**13.06**		**10.76**	**10.76**	**7.97**			**3,189**	**0.00**	**2,627.59**	**2,628**	**562**	**2,628**	**2,628**	**0**	**1,946**	**681**
Block J1J2 - Com	*125.3*	*1*	*125.3*	**5.89**		**4.94**	**4.94**	**3.51**			**738**	**0.00**	**618.98**	**619**	**119**	**619**	**619**	**0**	**440**	**179**
Block K - Comme	*1259.4*	*1*	*1259.4*	**4.78**		**3.95**	**3.95**	**3.09**			**6,020**	**0.00**	**4,974.63**	**4,975**	**1,045**	**4,975**	**4,975**	**0**	**3,892**	**1,083**
Block L - Comme	*16.5*	*1*	*16.5*	**6.61**		**5.46**	**5.46**	**3.70**			**109**	**0.00**	**90.09**	**90**	**19**	**90**	**90**	**0**	**61**	**29**
Block N - Comme	*97.4*	*1*	*97.4*	**5.55**		**4.36**	**4.36**	**3.34**			**541**	**0.00**	**424.66**	**425**	**116**	**425**	**425**	**0**	**325**	**99**
Morrisons - Com	*2252.92*	*1*	*2252.92*	**4.94**		**4.18**	**4.18**	**3.20**			**11,129**	**0.00**	**9,417.21**	**9,417**	**1,712**	**9,417**	**9,417**	**0**	**7,209**	**2,208**
ABC	*371*	*1*	*371*	**1.24**	**-4.70**	**1.41**	**1.41**	**0.80**			**460**	**-224.49**	**523.11**	**299**	**161**	**523**	**299**	**0**	**297**	**2**
D	*153*	*1*	*153*	**2.53**	**-6.58**	**2.72**	**2.72**	**1.64**			**387**	**-129.61**	**416.16**	**287**	**101**	**416**	**287**	**0**	**251**	**36**
E	*593.1*	*1*	*593.1*	**0.81**	**-3.29**	**0.91**	**0.91**	**0.52**			**480**	**-251.22**	**539.72**	**289**	**192**	**540**	**289**	**0**	**308**	**-20**
F	*244.6*	*1*	*244.6*	**0.60**	**-5.48**	**1.00**	**1.00**	**0.38**			**147**	**-172.57**	**244.60**	**72**	**75**	**245**	**72**	**0**	**93**	**-21**
G	*858*	*1*	*858*	**1.22**	**-2.74**	**1.10**	**1.10**	**0.79**			**1,047**	**-302.67**	**943.80**	**641**	**406**	**944**	**641**	**0**	**678**	**-37**
H	*582.2*	*1*	*582.2*	**1.08**	**-3.66**	**0.98**	**0.98**	**0.66**			**629**	**-274.33**	**570.56**	**296**	**333**	**571**	**296**	**0**	**384**	**-88**
J1J2	*1196.3*	*1*	*1196.3*	**0.95**	**-1.94**	**0.98**	**0.98**	**0.60**			**1,136**	**-298.79**	**1,172.37**	**874**	**263**	**1,172**	**874**	**0**	**718**	**156**
K	*1120.8*	*1*	*1120.8*	**1.00**	**-3.29**	**0.90**	**0.90**	**0.64**			**1,121**	**-474.73**	**1,008.72**	**534**	**587**	**1,009**	**534**	**0**	**717**	**-183**
L	*874.1*	*1*	*874.1*	**0.93**	**-2.99**	**0.84**	**0.84**	**0.56**			**813**	**-336.48**	**734.24**	**398**	**415**	**734**	**398**	**0**	**489**	**-92**
M	*2207.5*	*1*	*2207.5*	**0.82**	**-1.57**	**0.78**	**0.78**	**0.51**			**1,810**	**-446.20**	**1,721.85**	**1,276**	**534**	**1,722**	**1,276**	**0**	**1,126**	**150**
N	*797.5*	*1*	*797.5*	**1.75**	**-2.53**	**1.66**	**1.66**	**1.06**			**1,396**	**-259.76**	**1,323.85**	**1,064**	**332**	**1,324**	**1,064**	**0**	**845**	**219**
P	*891.2*	*1*	*891.2*	**1.06**	**-2.74**	**1.07**	**1.07**	**0.66**			**945**	**-314.38**	**953.58**	**639**	**305**	**954**	**639**	**0**	**588**	**51**
Q	*453.3*	*1*	*453.3*	**1.05**	**-5.48**	**1.35**	**1.35**	**0.63**			**476**	**-319.81**	**611.96**	**292**	**184**	**612**	**292**	**0**	**286**	**7**
Sum		**24**	**19,134**	**3.0**	**-1.5**	**2.6**	**2.6**	**1.9**			***57,561***	***-3,805***	***49,249***	***45,444***	***12,117***	***49,249***	***45,444***	***0***	***36,243***	***9,201***
SITE-WIDE ENERGY CONSUMPTION AND CO_2 ANALYSIS																				
Total Sum			**79,587**	**-**	**-**	**-**	**-**	**-**			***828,411***	***-38,029***	***678,329***	***640,300***	***188,111***	***678,329***	***640,300***	***0***	***309,779***	***330,521***

Residential predicted energy use

Building type	GIA (m^2)	EUI & space heating demand (kWh/year)									Has the following energy use been included?		Results		Table 4 of the guidance comparison		Methodology used		
		Space heating demand	Annual Electricity Use	Annual Gas Use	Annual Oil Use	Annual Biomass Use	Annual District Htg Use	Annual District Clg Use	Elec Generation, Gross	Solar Thermal Generation	Regulated	Unregulated	EUI (kWh/m^2/year) (excluding renewable energy)	Space heating demand (kWh/m^2/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Software	Operational energy use assessment	notes (if expected performance differs from the Table 4 values in the guidance or other software used)
					if applicable	if applicable	if applicable	if applicable	if applicable	if applicable									
Residential use (total)	60453	809208	2527302.193	0			1369947.478				Yes	Yes	58.05490272	13.38573768	35	15			
Landlord Circulation (in Residential Blocks)	10342.6	19022.1	212782								Yes	Yes							
Total	70795.6	828230.1	2740084.193	0	0	0	1369947.478	0	0	0									

Non-residential predicted energy use

Building type	GIA (m^2)	EUI & space heating demand (kWh/year)									Has the following energy use been included?		Results		Table 4 of the guidance comparison		Methodology used		
		Space heating demand	Annual Electricity Use	Annual Gas Use	Annual Oil Use	Annual Biomass Use	Annual District Htg Use	Annual District Clg Use	Elec Generation, Gross	Solar Thermal Generation	Regulated	Unregulated	EUI (kWh/m^2/year) (excluding renewable energy)	Space heating demand (kWh/m^2/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Software	Operational energy use assessment	notes (if expected performance differs from the Table 4 values in the guidance or other software used)
					if applicable	if applicable	if applicable	if applicable	if applicable	if applicable									
All other non-residential	1245.2	27705.7	60006.188								Yes	Yes	48.19	22.25	55	15			
Office	2725.3	27116.735	166243.3								Yes	Yes	61	9.95	55	15			
All other non-residential	341	13640	47780.92								Yes	Yes	140.12	40	55	15			
All other non-residential	208.2	7703.4	33680.514								Yes	Yes	161.77	37	55	15			
All other non-residential	276.2	2913.91	35530.368								Yes	Yes	128.64	10.55	55	15			
All other non-residential	244.2	6617.82	37777.74								Yes	Yes	154.7	27.1	55	15			
All other non-residential	125.3	3395.63	6624.611								Yes	Yes	52.87	27.1	55	15			
All other non-residential	1259.4	16938.93	59242.176								Yes	Yes	47.04	13.45	55	15			
All other non-residential	16.5	561.825	890.34								Yes	Yes	53.96	34.05	55	15			
All other non-residential	97.4	978.87	4994.672								Yes	Yes	51.28	10.05	55	15			
All other non-residential	2252.92	901.168	115552.2668								Yes	Yes	51.29	0.4	55	15			
Total	8791.62	108473.988	568323.0958	0	0	0	0	0	0	0									

Part L 2021 Performance

Residential

Table 1: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for residential buildings

	Carbon Dioxide Emissions for residential buildings (Tonnes CO_2 per annum)	
	Regulated	**Unregulated**
Baseline: Part L 2021 of the Building Regulations Compliant Development	770.8	34.5
After energy demand reduction (be lean)	594.9	34.5
After heat network connection (be clean)	594.9	34.5
After renewable energy (be green)	273.5	34.5

Table 2: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for residential buildings

	Regulated residential carbon dioxide savings	
	(Tonnes CO_2 per annum)	**(%)**
Be lean: savings from energy demand reduction	176.0	23%
Be clean: savings from heat network	0.0	0%
Be green: savings from renewable energy	321.3	42%
Cumulative on site savings	**497.3**	**65%**
Annual savings from off-set payment	273.5	-
	(Tonnes CO_2)	
Cumulative savings for off-set payment	**8,206**	-
Cash in-lieu contribution (£)	**779,579**	

*carbon price is based on GLA recommended price of £95 per tonne of carbon dioxide unless Local Planning Authority price is inputted in the 'Development

Non-residential

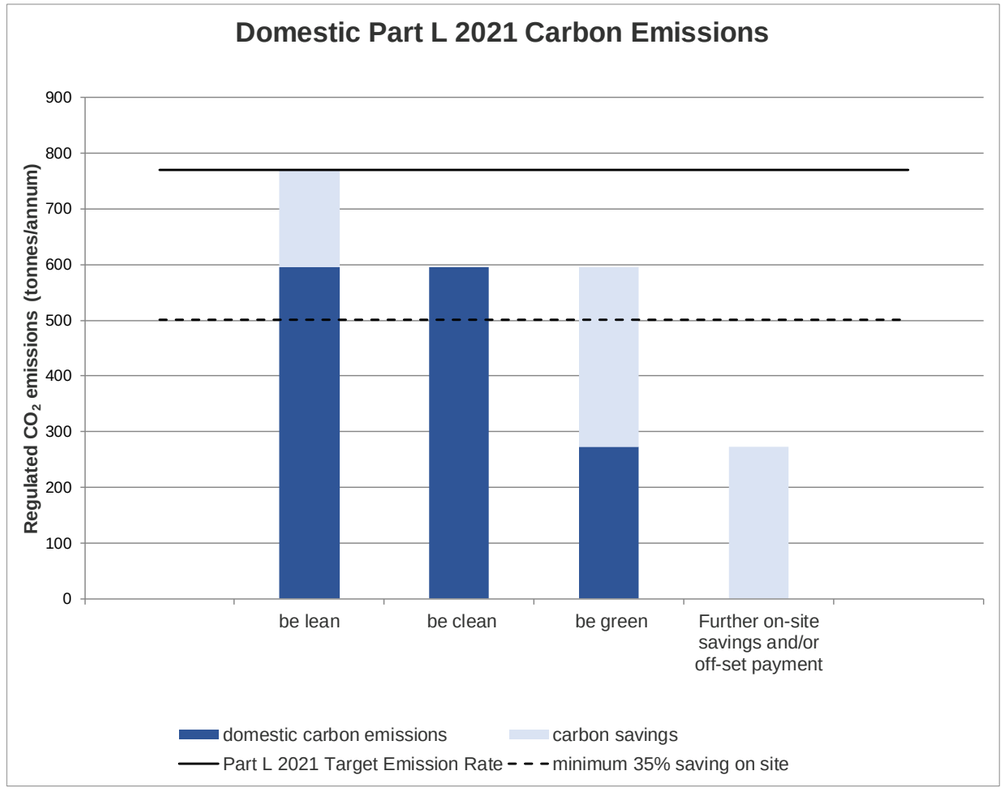
Table 3: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for non-residential buildings

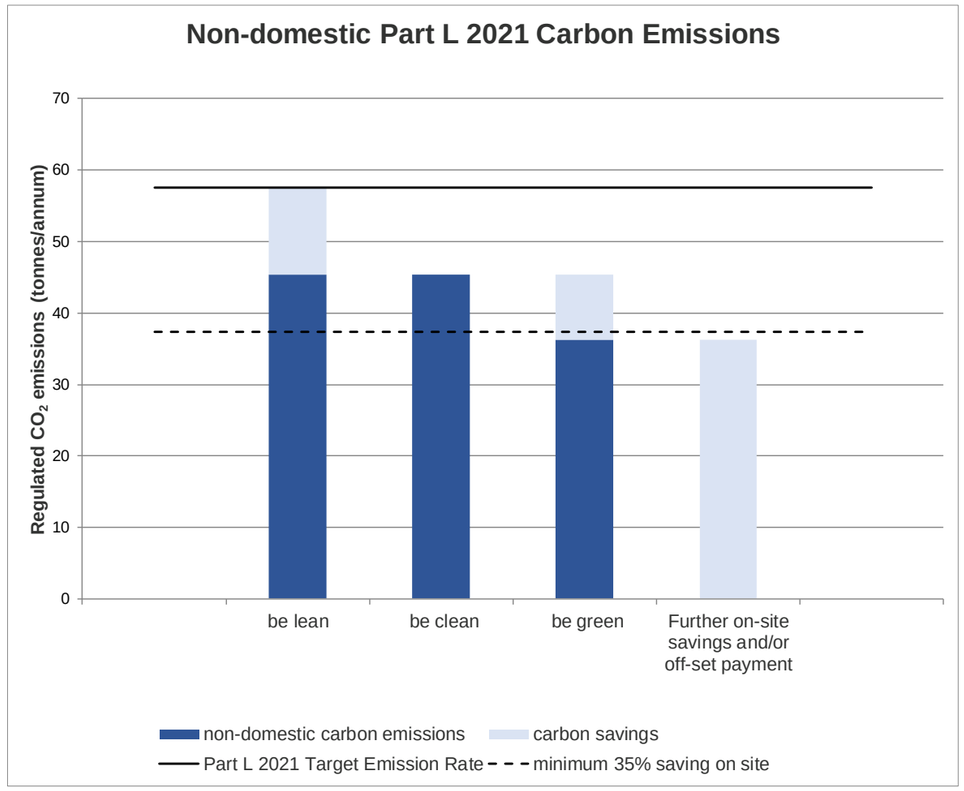
	Carbon Dioxide Emissions for non-residential buildings (Tonnes CO_2 per annum)	
	Regulated	**Unregulated**
Baseline: Part L 2021 of the Building Regulations Compliant Development	57.6	13.6
After energy demand reduction (be lean)	45.4	13.6
After heat network connection (be clean)	45.4	13.6
After renewable energy (be green)	36.2	13.6

Table 4: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for non-residential buildings

	Regulated non-residential carbon dioxide savings	
	(Tonnes CO_2 per annum)	**(%)**
Be lean: savings from energy demand reduction	12.1	21%
Be clean: savings from heat network	0.0	0%
Be green: savings from renewable energy	9.2	16%
Total Cumulative Savings	**21.3**	**37%**
Annual savings from off-set payment	36.2	-
	(Tonnes CO_2)	
Cumulative savings for off-set payment	**1,087**	-
Cash in-lieu contribution (£)	**103,292**	

*carbon price is based on GLA recommended price of £95 per tonne of carbon dioxide unless Local Planning Authority price is inputted in the 'Development





SITE-WIDE

	Total regulated emissions (Tonnes CO_2 / year)	CO_2 savings (Tonnes CO_2 / year)	Percentage savings (%)
Part L 2021 baseline	828.4		
Be lean	640.3	188.1	23%
Be clean	640.3	0.0	0%
Be green	309.8	330.5	40%
Total Savings	-	518.6	63%
	-	**CO_2 savings off-set (Tonnes CO_2)**	-
Off-set	-	**9,293.4**	-

	Target Fabric Energy Efficiency (kWh/m²)	Dwelling Fabric Energy Efficiency (kWh/m²)	Improvement (%)
Development total	25.70	26.65	-4%

	Area weighted non-residential cooling demand (MJ/m^2)	Total non-residential cooling demand (MJ/year)
Actual	25.25	483212.7909
Notional	23.64	452391.2174

EUI & space heating demand (predicted energy use)

Residential

Building type	EUI (kWh/m^2/year) (excluding renewable energy)	Space heating demand (kWh/m^2/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance(kWh/m^2/year) (excluding renewable energy)	Methodology used (e.g. 'be seen' methodology or an alternative predictive energy modelling methodology)	Explanatory notes (if expected performance differs from the Table 4 values in the guidance)
Residential	58.05490272	13.38573768	35	15	& dwellings / & Landlord Circulation	

Non-residential

Building type	EUI (kWh/m^2/year) (excluding renewable energy)	Space heating demand (kWh/m^2/year) (excluding renewable energy)	EUI value from Table 4 of the guidance (kWh/m^2/year) (excluding renewable energy)	Space heating demand from Table 4 of the guidance(kWh/m^2/year) (excluding renewable energy)	Methodology used (e.g. 'be seen' methodology or an alternative predictive energy modelling methodology)	Explanatory notes (if expected performance differs from the Table 4 values in the guidance)
All other non-residential	48.19	22.25	55	15	&	
Office	61	9.95	55	15	&	
All other non-residential	140.12	40	55	15	&	
All other non-residential	161.77	37	55	15	&	
All other non-residential	128.64	10.55	55	15	&	
All other non-residential	154.7	27.1	55	15	&	
All other non-residential	52.87	27.1	55	15	&	
All other non-residential	47.04	13.45	55	15	&	
All other non-residential	53.96	34.05	55	15	&	
All other non-residential	51.28	10.05	55	15	&	
All other non-residential	51.29	0.4	55	15	&	

APPENDIX I GLA Be Seen Monitoring Reporting Spreadsheet

OVERALL PROGRESS 100%

CURRENT REPORTING STAGE ----------->>	Planning *

CONTEXTUAL DATA

Progress: 100%

+ ORGANISATION & CONTACT DETAILS

+ DEVELOPMENT INFORMATION

OVERALL DEVELOPMENT DETAILS

Planning Reference Number	24/AP/2074 *
Name of Whole Development	Aylesham Centre *

DEVELOPMENT LOCATION

Development Address	
Address Line 1	Aylesham Centre *
Address Line 2	Hanover Park
Address Line 3	London
Address Line 4	
London Borough	Southwark *
Postcode	SE15 5EW *
Ordnance Survey Reference	
Development UPRN (if available)	TBC
Geo-Location Coordinates	
Latitude (to 6 decimal places)	51.500
Longitude (to 6 decimal places, +ve or -ve)	0.128

DEVELOPMENT TOTAL AREA BREAKDOWN

Residential		
Total Residential Floor Area	GIA m2	79,258 *
Dwelling Counts		
Flats	number	867 *
House	number	0 *
Non-Residential		
Non-Residential Floor Area Breakdown		*Please include complete non-resi details below*
Landlord Circulation (in Residential Blocks)	GIA m2	10,343 *
General office (A2, B1, B8, D1 planning classes)	GIA m2	2,725 *
High street agency (A2 planning classes)	GIA m2	*
General retail (A1, SG planning classes)	GIA m2	6,538 *
Large non-food shop (A1 planning classes)	GIA m2	*
Small food store	GIA m2	*
Large food store	GIA m2	4,436 *
Restaurant (A3, A5 planning classes)	GIA m2	*
Bar, pub or licensed club (A4 planning classes)	GIA m2	*
Hotel (C1 planning classes)	GIA m2	*
Cultural Activities	GIA m2	*
Entertainment halls (D2 planning classes)	GIA m2	*
Swimming pool centre	GIA m2	*
Fitness and health centre	GIA m2	*
Dry sports and leisure facility (D2 planning classes)	GIA m2	*
Covered car park	GIA m2	*
Public buildings with light usage (D1, SG planning classe	GIA m2	*
Schools and seasonal public buildings (D1, D2 planning c	GIA m2	*
University campus	GIA m2	*
Clinic (D1 planning classes)	GIA m2	*
Hospital (clinical and research)	GIA m2	*
Long term residential (C1, C2, C2A planning classes)	GIA m2	*
General accommodation (C1, C2, C3 planning classes)	GIA m2	*
Emergency services (SG planning classes)	GIA m2	*
Laboratory or operating theatre	GIA m2	*
Public waiting or circulation (SG planning classes)	GIA m2	*
Terminal (B8 planning classes)	GIA m2	*
Workshop (B1, B2 planning classes)	GIA m2	*
Storage Facility (B8 planning classes)	GIA m2	*
Cold Storage (B8 planning classes)	GIA m2	*
Overall Development Summary		
Total Development Floor Area		
Residential	GIA m2	79,258
Non-Residential	GIA m2	24,042
Total	GIA m2	103,301
Total Non-Residential Uses		Landlord Circulation; General office; General retail; Large food store

+ SUPPLEMENTARY FILES AND UPCOMING REPORTING STAGES

DEVELOPMENT PERFORMANCE AND EMISSIONS

Progress: 100%

+ DEVELOPMENT PERFORMANCE

DEVELOPMENT OVERALL PREDICTED PERFORMANCE

Predicted Performance Calculation Details		
Fuel Carbon Intensity Source (aligned with planning energy statemen		SAP 10.2 *
Residential Elements of the development		
Predicted Annual Energy Use		*Fill in all applicable fuels below*
Annual Electricity Use	kWh/yr	2,740,085 *
Annual Gas Use	kWh/yr	0 *
Annual Oil Use (if applicable)	kWh/yr	*
Annual Biomass Use (if applicable)	kWh/yr	*
Annual District Htg Use (if applicable)	kWh/yr	1,369,947 *
Annual District Clg Use (if applicable)	kWh/yr	*
Elec Generation, Gross (if applicable)	kWh/yr	*
Solar Thermal Generation (if applicable)	kWh/yr	*
Predicted Annual Carbon Emissions	tCO2/yr	273,536 *
Non-Residential Elements of the development (Part L Calculation)		
Predicted Annual Energy Use		*Fill in all applicable fuels below*
Annual Electricity Use	kWh/yr	568,323 *
Annual Gas Use	kWh/yr	0 *
Annual Oil Use (if applicable)	kWh/yr	*
Annual Biomass Use (if applicable)	kWh/yr	*
Annual District Htg Use (if applicable)	kWh/yr	*
Annual District Clg Use (if applicable)	kWh/yr	*
Elec Generation, Gross (if applicable)	kWh/yr	*
Solar Thermal Generation (if applicable)	kWh/yr	*
Predicted Annual Carbon Emissions	tCO2/yr	36,460 *
Non-Residential Elements of the development (TM54 Calculation)		
Predicted Annual Energy Use		*Fill in all applicable fuels below*
Annual Electricity Use	kWh/yr	568,323 *
Annual Gas Use	kWh/yr	0 *
Annual Oil Use (if applicable)	kWh/yr	*
Annual Biomass Use (if applicable)	kWh/yr	*
Annual District Htg Use (if applicable)	kWh/yr	*
Annual District Clg Use (if applicable)	kWh/yr	*
Elec Generation, Gross (if applicable)	kWh/yr	*
Solar Thermal Generation (if applicable)	kWh/yr	*
Predicted Annual Carbon Emissions	tCO2/yr	36,460 *

CARBON OFFSETTING

Predicted Carbon Shortfall (aligned with planning energy st	tCO2	9,293 *
Total Committed Carbon Offset	£	882,871 *

END

APPENDIX J SELCHP Correspondence

From: Sousa, João <joao.sousa@veolia.com>
Sent: 11 March 2025 17:42
To: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Cc: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

Dear Mohamed,

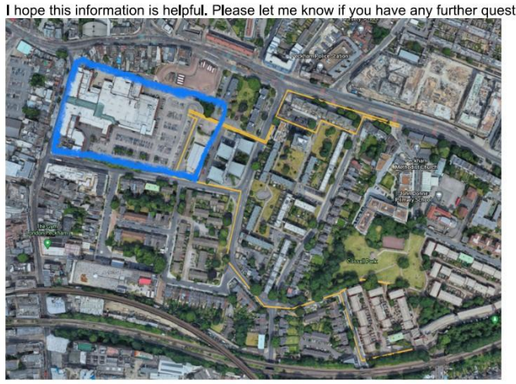
Thank you for contacting me and for your continued interest in a DH connection.

Regarding the connection, it would most likely be established at Queens Road, as part of our extension to Cossall Estate. Due to the lack of information on the specific connection requirements, it is challenging to provide an accurate estimate of the capital cost at this stage. However, considering a potential connection length of approximately 370m, we estimate that capital costs could be in the region of £2 million, plus the additional costs for on-site connections and plant room equipment.

While our project has experienced some delays, we anticipate that Phase 1 construction will be completed by Summer 2025, with Phase 2 expected to be finalised by the end of 2026.

Please note that our system operates at a higher temperature than typically utilised in new buildings; however, we can accommodate adjustments to suit your specific requirements. Our current operating temperature is above 95°C. The preferred route for the connection remains unchanged.

I hope this information is helpful. Please let me know if you have any further questions.



Kindest Regards,

Joao Sousa CEng MICE
Head of Heat Network Development
United Kingdom

e. joao.sousa@veolia.com
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t. +44 (0)20 3567 6148
Veolia Uk, Landmann Way, Deptford, LONDON SE14 5RS
www.veolia.co.uk

On Tue, 11 Mar 2025 at 17:14, Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com> wrote:

Hi Joao,

It was great to talk you over phone. As discussed, below is the previous correspondence history on Aylsham centre development.

We would like to have updated information regarding the feasibility of SELCHP heat network connection to the site

The information required will be same as previously provided mainly regarding the potential/preferred network route and access to the site, expected high level costs to connect to the site, timelines of such connection in line with the current network expansion plans, updates on carbon factors of SELCHP if any , flow temperatures.

Please let me know if any information from my end.

Looking forward to hearing from you.

Regards,
Mo

Mohamed Mekkawy MSc in CFD, LEED AP® BD+C WELL AP, BREEAM Assessor, CIBSE LCC LCEA ASHRAE CPD BEMP HBDP OCDEA AMIOA
Senior Associate | Building Physics Engineer
office: +44 207 401 8382
mobile: +44 7394 570 490
Mohamed.Mekkawy@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers

BREEAM LICENSED ASSESSOR COMPANY
greenbooklive.com

From: Mohamed Mekkawy
Sent: 10 March 2025 14:30
To: Sousa, João <joao.sousa@veolia.com>; enquiries@selchp.com
Cc: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: RE: SELCHP - Contact Form Enquiry

Hi,

Just following up on the below email trail from 2022 regarding feasibility of connecting SELCH to Aylesham centre project and the timeline expected for this. Could you please provide updated information regarding this based on the latest plans and developments to update our energy strategy accordingly.

Looking forward to hearing from you.

Regards,
Mo

From: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Sent: 10 August 2022 11:51
To: Sousa, João <joao.sousa@veolia.com>
Cc: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Subject: RE: SELCHP - Contact Form Enquiry

Hi Joao,

Thanks again for your assistance thus far.
My responses to your statements:
As a rule of thumb, I could estimate a ~£1.6M cost for civils and pipe installation plus PHEx substations which could be £80k each (turn-key solution from Danfoss).
Is this quotation at current or projected market rate? You mention PHEX substations, would Veolia take ownership of the Substations located within our site? I am anticipating 2 PHEX plantrooms, 1 per phase. Are you able to give me an indication on plantroom space requirements for 1000 residential units across 2 phases?
If you consider it's worth discussing, I would suggest scheduling a meeting to discuss feasibility studies. We could start with a RIBA stage 2 and develop to a more advanced design at a later stage as you progress with your project (see high-level scope attached).
Yes I think this would be a good idea. I am in the process of writing a design note to the client to review the various options, so any further information you could provide would be helpful. Looking to issue it early next week.
After feasibility studies the connection is deemed to be feasible and viable, we will need formal commitment from your client for the connection. This is because we will have to invest in the pipes upstream, with a decision Q1/Q2 next 2023. We should start construction soon after.
It sounds as though this is a very promising option, as long as it is feasible and the client is on board, then Veolia would be happy to proceed with the strategy?

Many Thanks

Kind Regards

Henry Warren-Jones MEng, MSc
Senior Mechanical Engineer
office: +44 207.401.8382
Henry.Warren-Jones@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers

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From: Sousa, João <joao.sousa@veolia.com>
Sent: 13 July 2022 15:34
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Cc: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

This email originated from outside your organization.

[CAUTION: External]

Hi Henry,

Heat is being generated to the DH by the recovery of waste heat used in the process of electricity production. The fuel to produce the steam to generate electricity is residential waste (black bag). You will understand the process through the youtube video here.
The SELCHP plant is constantly being upgraded either through some improvement projects to innovate the plant and technology or even following a defined planned preventive maintenance.

Kindest Regards,

Joao Sousa CEng MICE
District Heating Contract Manager
United Kingdom

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m. +44 (0)79 2075 7242
t. +44 (0)20 3567 6148
SELCHP Ltd / Veolia ES SELCHP Ltd , Landmann Way, Deptford, LONDON SE14 5RS

www.selchp.com www.veolia.co.uk

On Wed, 13 Jul 2022 at 14:58, Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com> wrote:

Good Afternoon Joao,

Hope you are well.
Thank you again for the information.

I was wondering if you could tell us how the heat is being generated?
And whether the plant will be upgraded in the future?

Many Thanks
Kind Regards

Henry Warren-Jones MEng, MSc
Senior Mechanical Engineer
office: +44 207.401.8382
Henry.Warren-Jones@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers

BREEAM LICENSED ASSESSOR COMPANY
greenbooklive.com

From: Sousa, João <joao.sousa@veolia.com>
Sent: 23 May 2022 15:52
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

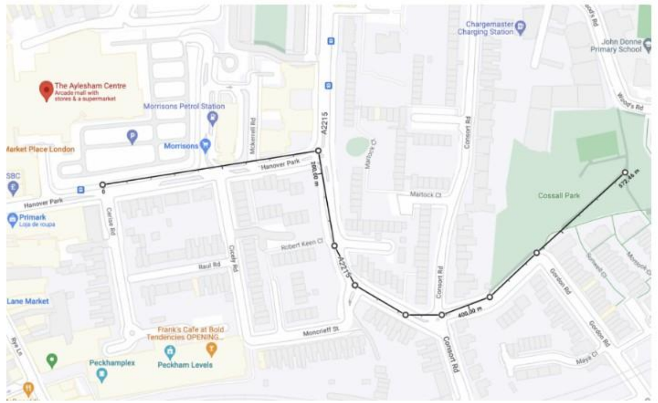
This email originated from outside your organization.

[CAUTION: External]

Hi Henry

A connection most likely would be viable as we plan to expand to a location close to your project (Woods Rd and Cossall Park). We would have to conduct feasibility studies to determine where to install pipes and by determining how much it would cost, establish the viability of the connection. You could then compare it to your counterfactual.

I would see the following potential route between the connection point and Aylesham Centre.



As a rule of thumb, I could estimate a ~£1.6M cost for civils and pipe installation plus PHEx substations which could be £80k each (turn-key solution from Danfoss).

If you consider it's worth discussing, I would suggest scheduling a meeting to discuss feasibility studies. We could start with a RIBA stage 2 and develop to a more advanced design at a later stage as you progress with your project (see high-level scope attached).

After feasibility studies the connection is deemed to be feasible and viable, we will need formal commitment from your client for the connection. This is because we will have to invest in the pipes upstream, with a decision Q1/Q2 next 2023. We should start construction soon after.

I hope this keeps you informed and let me know if you would like to discuss it further.

Kindest Regards,

Joao Sousa CEng MICE
District Heating Contract Manager
United Kingdom

e. joao.sousa@veolia.com
m. +44 (0)79 2075 7242
t. +44 (0)20 3567 6148
SELCHP Ltd / Veolia ES SELCHP Ltd , Landmann Way, Deptford, LONDON SE14 5RS

www.selchp.com www.veolia.co.uk

On Mon, 23 May 2022 at 15:09, Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com> wrote:

Afternoon Joao,

I was wondering if you could provide an update please?

Thanks
Kind Regards

Henry Warren-Jones MEng, MSc
Senior Mechanical Engineer
office: +44 207.401.8382
Henry.Warren-Jones@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers

From: Henry Warren-Jones
Sent: 26 April 2022 11:42
To: Sousa, João <joao.sousa@veolia.com>
Subject: RE: SELCHP - Contact Form Enquiry

Hi Joao,

Thanks for your response, please see attached.

When might we get a response?
We would like to give the client an indication as to whether this is at all feasible.

Many Thanks
Kind Regards

From: Sousa, João <joao.sousa@veolia.com>
Sent: 25 April 2022 12:47
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

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[CAUTION: External]

Hi Henry,

Could you please provide more information by filling out the proforma attached?!
Cheers

Kindest Regards,

Joao Sousa CEng MICE
District Heating Contract Manager
United Kingdom

e. joao.sousa@veolia.com
m. +44 (0)79 2075 7242
t. +44 (0)20 3567 6148
SELCHP Ltd / Veolia ES SELCHP Ltd , Landmann Way, Deptford, LONDON SE14 5RS

www.selchp.com www.veolia.co.uk

On Tue, 19 Apr 2022 at 12:33, Enquiries <enquiries@selchp.com> wrote:

> ---------- Forwarded message ---------
> From: **info@selchp.co.uk** <info@selchp.co.uk>
> Date: Wed, 13 Apr 2022 at 14:40
> Subject: SELCHP - Contact Form Enquiry
> To: <maxine.steward@veolia.com>, <claudia.ridler@veolia.com>, <thomas.folliard@selchp.com>
>
> Thank you for your enquiry. We shall contact you shortly.
>
> Name: Henry Warren-Jones
> Email: henry.warren-jones@me-engineers.com
> Phone: 07804481264
> Nature Of Enquiry: Business Enquiry
> Contact By: Email
> Comments: Good Afternoon SELCHP, We are working on a large residential development in south east London and wish to understand whether we can connect into your district heating network? Could you give me some more information about the network, and some indication as to whether this will be possible. Many Thanks Kind Regards

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Registered office 210 Pentonville Road, London N1 9JY.

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District Heating Connection Enquiry

Heat Load Technical Proforma

Client Details

(Insert your details for future communications)

Entity/Company Name	ME Engineers		
Lead Contact Name	Henry Warren-Jones	E-mail	ıry.warren-jones@Me-engineers.c
Landline	020 7401 8382	Mobile	

Project Details & Timeline

(Short description of the project including how many phases, the year each phase is expected to start, etc.)

Location/Address	Aylesham Centre - SE London	Postcode	
Planning submitted	☐ Yes ☑ No	Reference No.	
Envisaged planning submission date			
Number of project phases			
Construction date	Starting	Finishing	
Heat supply date		01/01/2024	

Upload a plan view of the development (e.g. pdf, jpeg):

SELCHP - South East Combine Heat and Power

Heat Load Technical Proforma

Project Built-out Specifications

(please provide a short description of the project)

Large residential development in two phases, including a range of commercial, f&b, gym, retail spaces on ground floor.

Type of Use

(please identify the use of the development and fill all the information to establish a heat profile - Important for proposal)

	No. Units	Area (m2)	Demand (kWh)	Base Load (kW)	Peak Load (kW)	Temperature F&R (°C)
Residential	921.0	84.0			7,515.0	
Commercial		5,694.0			461.0	
Offices						
Hotel						
School						

Proposal Request (tick the boxes you want to include)

☐ Yes
☐ No

Include:

☐ ESCo
☐ Design
☐ Secondary systems
☐ Heat plant O&M
☐ HIU Supply&Install
☐ Billing&Metering

Comments

(please provide any further details to assist you - E.g. Limit date to submit an answer, meeting request or any additional information required to support your energy strategy)

Can the development connect into the district heating network?

Note:
Peak load of 7515kW is undiversified DHW and space heating
84m2 average apartment floor area

SELCHP - South East Combine Heat and Power

On Tue, 11 Mar 2025 at 17:14, Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com> wrote:

> Hi Joao,
>
> It was great to talk you over phone. As discussed, below is the previous correspondence history on Aylsham centre development.
>
> We would like to have updated information regarding the feasibility of SELCHP heat network connection to the site
>
> The information required will be same as previously provided mainly regarding the potential/preferred network route and access to the site, expected high level costs to connect to the site, timelines of such connection in line with the current network expansion plans, updates on carbon factors of SELCHP if any , flow temperatures.
>
> Please let me know if any information from my end.
>
> Looking forward to hearing from you.
>
> Regards,
> Mo

Mohamed Mekkawy MSc in CFD, LEED AP® BD+C WELL AP, BREEAM Assessor, CIBSE LCC LCEA ASHRAE CPD BEMP HBDP OCDEA AMIOA
Senior Associate | Building Physics Engineer
office: +44 207.401.8382
mobile: +44 7394 570 490
Mohamed.Mekkawy@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers

greenbooklive.com

From: Mohamed Mekkawy
Sent: 10 March 2025 14:30
To: Sousa, João <joao.sousa@veolia.com>; enquiries@selchp.com
Cc: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: RE: SELCHP - Contact Form Enquiry

Hi,

Just following up on the below email trail from 2022 regarding feasibility of connecting SELCH to Aylesham centre project and the timeline expected for this. Could you please provide updated information regarding this based on the latest plans and developments to update our energy strategy accordingly.

Looking forward to hearing from you.

Regards,
Mo

From: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Sent: 10 August 2022 11:51
To: Sousa, João <joao.sousa@veolia.com>
Cc: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Subject: RE: SELCHP - Contact Form Enquiry

Hi Joao,

Thanks again for your assistance thus far.
My responses to your statements:
As a rule of thumb, I could estimate a ~£1.6M cost for civils and pipe installation plus PHEx substations which could be £80k each (turn-key solution from Danfoss).
Is this quotation at current or projected market rate? You mention PHEX substations, would Veolia take ownership of the Substations located within our site? I am anticipating 2 PHEX plantrooms, 1 per phase. Are you able to give me an indication on plantroom space requirements for 1000 residential units across 2 phases?
If you consider it's worth discussing, I would suggest scheduling a meeting to discuss feasibility studies. We could start with a RIBA stage 2 and develop to a more advanced design at a later stage as you progress with your project (see high-level scope attached).
Yes I think this would be a good idea. I am in the process of writing a design note to the client to review the various options, so any further information you could provide would be helpful. Looking to issue it early next week.
After feasibility studies the connection is deemed to be feasible and viable, we will need formal commitment from your client for the connection. This is because we will have to invest in the pipes upstream, with a decision Q1/Q2 next 2023. We should start construction soon after.
It sounds as though this is a very promising option, as long as it is feasible and the client is on board, then Veolia would be happy to proceed with the strategy?

Many Thanks

From: Sousa, João <joao.sousa@veolia.com>
Sent: 11 March 2025 17:42
To: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Cc: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

Dear Mohamed,

Thank you for contacting me and for your continued interest in a DH connection.

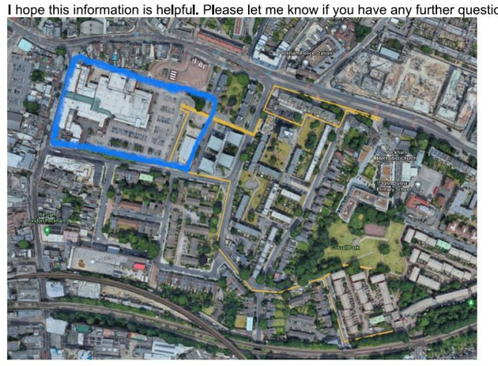
Regarding the connection, it would most likely be established at Queens Road, as part of our extension to Cossall Estate. Due to the lack of information on the specific connection requirements, it is challenging to provide an accurate estimate of the capital cost at this stage. However, considering a potential connection length of approximately 370m, we estimate that capital costs could be in the region of £2 million, plus the additional costs for on-site connections and plant room equipment.

While our project has experienced some delays, we anticipate that Phase 1 construction will be completed by Summer 2025, with Phase 2 expected to be finalised by the end of 2026.

Regarding the SELCHP carbon footprint, it is expected to align with the recommendations outlined in SAP10.2 - Waste Energy, specifically 0.015kgCO2/kWh.

Please note that our system operates at a higher temperature than typically utilised in new buildings; however, we can accommodate adjustments to suit your specific requirements. Our current operating temperature is above 95°C. The preferred route for the connection remains unchanged.

I hope this information is helpful. Please let me know if you have any further questions.



Kindest Regards,

Joao Sousa CEng MICE
Head of Heat Network Development
United Kingdom

e. joao.sousa@veolia.com
m. +44 (0)79 2075 7242
t. +44 (0)20 3567 6148
Veolia Uk, Landmann Way, Deptford, LONDON SE14 5RS
www.veolia.co.uk

Kind Regards

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office: +44 207,401,8382
Henry.Warren-Jones@me-engineers.com
Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
me | engineers



greenbooklive.com

From: Sousa, João <joao.sousa@veolia.com>
Sent: 13 July 2022 15:34
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Cc: Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

This email originated from outside your organization.

[CAUTION: External]

Hi Henry,

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The SELCHP plant is constantly being upgraded either through some improvement projects to innovate the plant and technology or even following a defined planned preventive maintenance.

Kindest Regards,

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District Heating Contract Manager
United Kingdom

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www.selchp.com www.veolia.co.uk

On Wed, 13 Jul 2022 at 14:58, Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com> wrote:

> Good Afternoon Joao,
>
> Hope you are well.
> Thank you again for the information.
>
> I was wondering if you could tell us how the heat is being generated?
> And whether the plant will be upgraded in the future?
>
> Many Thanks
> Kind Regards

Henry Warren-Jones MEng, MSc
Senior Mechanical Engineer
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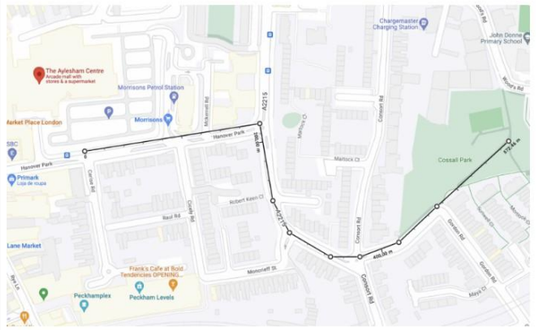
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> Subject: SELCHP - Contact Form Enquiry
> To: <maxine.steward@veolia.com>, <claudia.ridler@veolia.com>, <thomas.folliard@selchp.com>
>
> Thank you for your enquiry. We shall contact you shortly.
>
> Name: Henry Warren-Jones
> Email: henry.warren-jones@me-engineers.com
> Phone: 07804481264
> Nature Of Enquiry: Business Enquiry
> Contact By: Email
> Comments: Good Afternoon SELCHP, We are working on a large residential development in south east London and wish to understand whether we can connect into your district heating network? Could you give me some more information about the network, and some indication as to whether this will be possible. Many Thanks Kind Regards

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Outlook

Re: SELCHP - Contact Form Enquiry

From Sousa, João <joao.sousa@veolia.com>
Date Wed 7/13/2022 3:34 PM
To Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Cc Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>

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From: Sousa, João <joao.sousa@veolia.com>
Sent: 23 May 2022 15:52
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

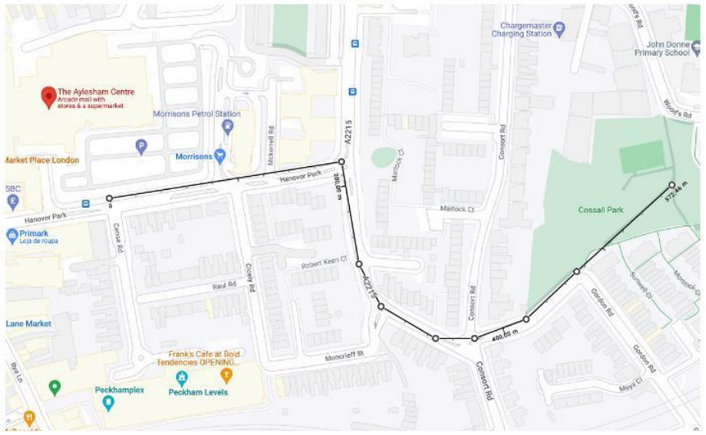
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Kindest Regards,

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District Heating Contract Manager
United Kingdom
e. joao.sousa@veolia.com
m. +44 (0)79 2075 7242
t. +44 (0)20 3567 6148
SELCHP Ltd / Veolia ES SELCHP Ltd , Landmann Way, Deptford, LONDON SE14 5RS

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Senior Mechanical Engineer

office: +44 207 401 8382

Henry.Warren-Jones@me-engineers.com

Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ

me | engineers

From: Henry Warren-Jones
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To: Sousa, João <joao.sousa@veolia.com>
Subject: RE: SELCHP - Contact Form Enquiry

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Kind Regards

From: Sousa, João <joao.sousa@veolia.com>
Sent: 25 April 2022 12:47
To: Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Subject: Re: SELCHP - Contact Form Enquiry

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Could you please provide more information by filling out the proforma attached?!

Cheers

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> ---------- Forwarded message ---------
> From: **info@selchp.co.uk** <info@selchp.co.uk>
> Date: Wed, 13 Apr 2022 at 14:40
> Subject: SELCHP - Contact Form Enquiry
> To: <maxine.steward@veolia.com>, <claudia.ridler@veolia.com>, <thomas.folliard@selchp.com>
>
> Thank you for your enquiry. We shall contact you shortly.
>
> Name: Henry Warren-Jones
> Email: henry.warren-jones@me-engineers.com
> Phone: 07804481264
> Nature Of Enquiry: Business Enquiry
> Contact By: Email
> Comments: Good Afternoon SELCHP, We are working on a large residential development in south east London and wish to understand whether we can connect into your district heating network? Could you give me some more information about the network, and some indication as to whether this will be possible. Many Thanks Kind Regards

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Outlook

Re: SELCHP - Contact Form Enquiry

From Sousa, João <joao.sousa@veolia.com>
Date Mon 5/23/2022 3:52 PM
To Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>

2 attachments (866 KB)
District Heating Connection Enquiry.pdf; Scope.png;

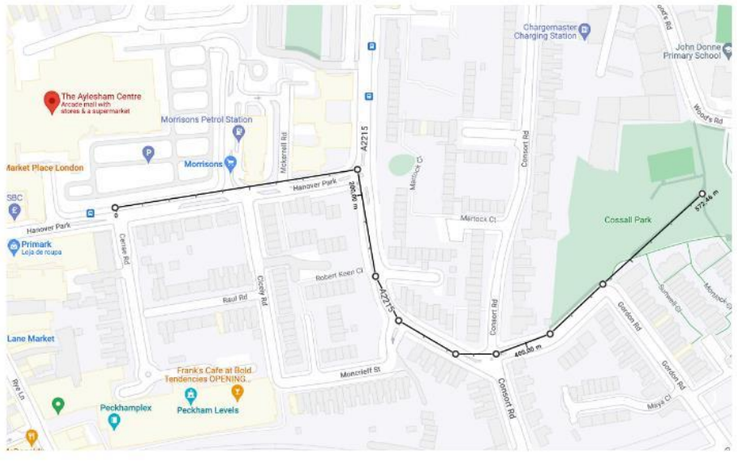
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Hi Henry

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> Thanks
>
> Kind Regards
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> **Henry Warren-Jones MEng, MSc**
> **Senior Mechanical Engineer**
> office:+44 207.401.8382
> Henry.Warren-Jones@me-engineers.com
> Europoint Centre, 2nd Floor, 5-11 Lavington Street, London SE1 0NZ
> me | engineers
>
> **From:** Henry Warren-Jones
> **Sent:** 26 April 2022 11:42
> **To:** Sousa, João <joao.sousa@veolia.com>
> **Subject:** RE: SELCHP - Contact Form Enquiry
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From: Sousa, João <joao.sousa@veolia.com>
Sent: 25 April 2022 12:47
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Subject: Re: SELCHP - Contact Form Enquiry

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Cheers

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On Tue, 19 Apr 2022 at 12:33, Enquiries <enquiries@selchp.com> wrote:

> ---------- Forwarded message ---------
> From: **info@selchp.co.uk** <info@selchp.co.uk>
> Date: Wed, 13 Apr 2022 at 14:40
> Subject: SELCHP - Contact Form Enquiry
> To: <maxine.steward@veolia.com>, <claudia.ridler@veolia.com>, <thomas.folliard@selchp.com>
>
>
> Thank you for your enquiry. We shall contact you shortly.
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> Name: Henry Warren-Jones

> Email: henry.warren-jones@me-engineers.com
> Phone: 07804481264
> Nature Of Enquiry: Business Enquiry
> Contact By: Email
> Comments: Good Afternoon SELCHP, We are working on a large residential development in south east London and wish to understand whether we can connect into your district heating network? Could you give me some more information about the network, and some indication as to whether this will be possible. Many Thanks Kind Regards

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Outlook

RE: SELCHP - Contact Form Enquiry

From Henry Warren-Jones <Henry.Warren-Jones@me-engineers.com>
Date Wed 7/13/2022 2:58 PM
To Sousa, João <joao.sousa@veolia.com>
Cc Mohamed Mekkawy <Mohamed.Mekkawy@me-engineers.com>

11/29/24, 7:36 PM RE: SELCHP - Contact Form Enquiry - Kate Moore - Outlook

Good Afternoon Joao,
Hope you are well.
Thank you again for the information.
I was wondering if you could tell us how the heat is being generated?
And whether the plant will be upgraded in the future?
Many Thanks
Kind Regards

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Senior Mechanical Engineer
office:+44 207.401.8382
Henry.Warren-Jones@me-engineers.com
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me | engineers

LICENSED ASSESSOR COMPANY
greenbooklive.com

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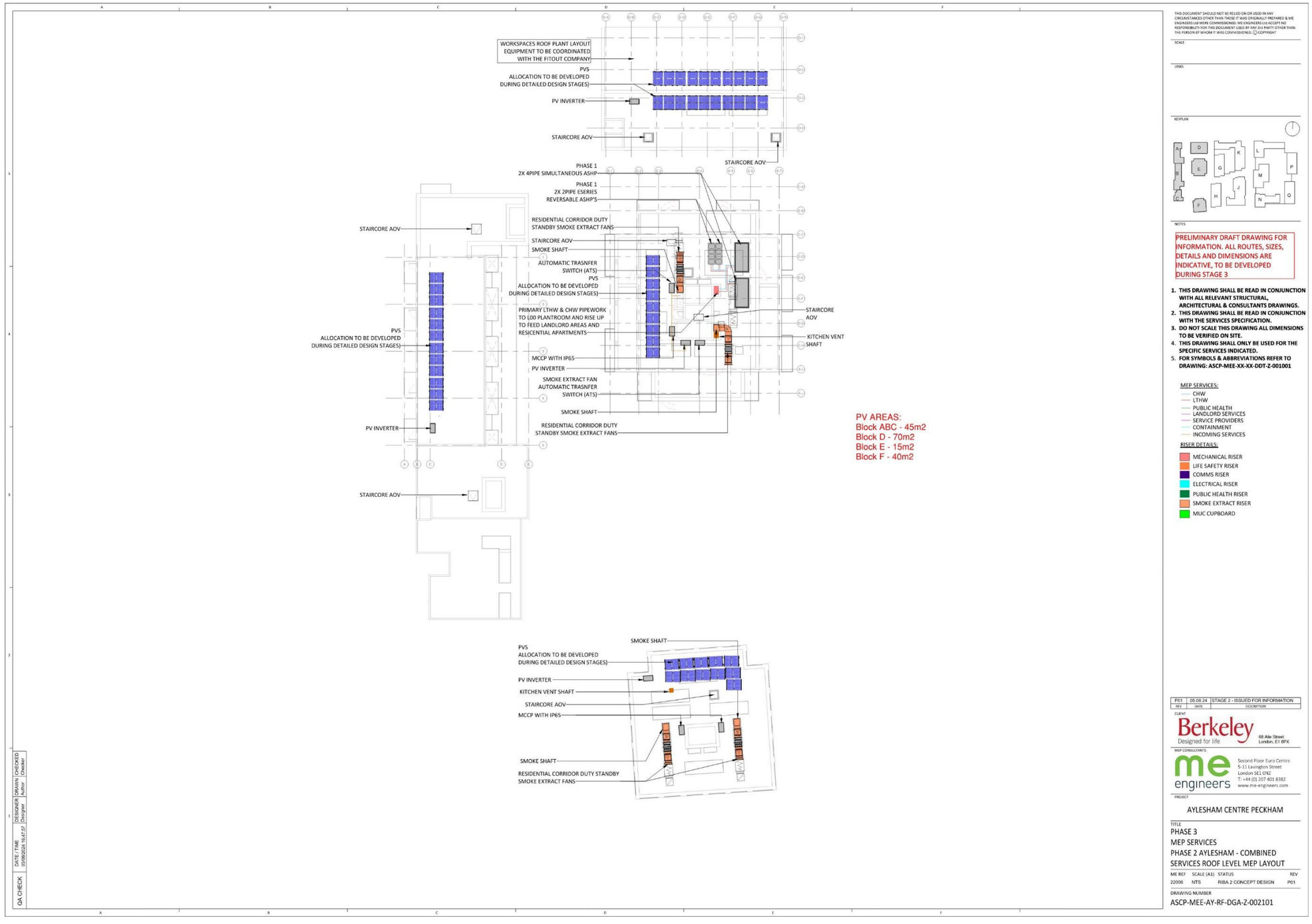
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11/29/24, 7:36 PM RE: SELCHP - Contact Form Enquiry - Kate Moore - Outlook

APPENDIX K PV Roof Level Layouts



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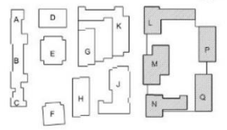
SCALE

0 5 10

1:250 SCALE IN METERS

LINKS

KEYPLAN



NOTES

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2. **THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SERVICES SPECIFICATION.**
3. **DO NOT SCALE THIS DRAWING ALL DIMENSIONS TO BE VERIFIED ON SITE.**
4. **THIS DRAWING SHALL ONLY BE USED FOR THE SPECIFIC SERVICES INDICATED.**
5. **FOR SYMBOLS & ABBREVIATIONS REFER TO DRAWING: ASCP-MEE-XX-XX-DDT-Z-001001**

MEP SERVICES:

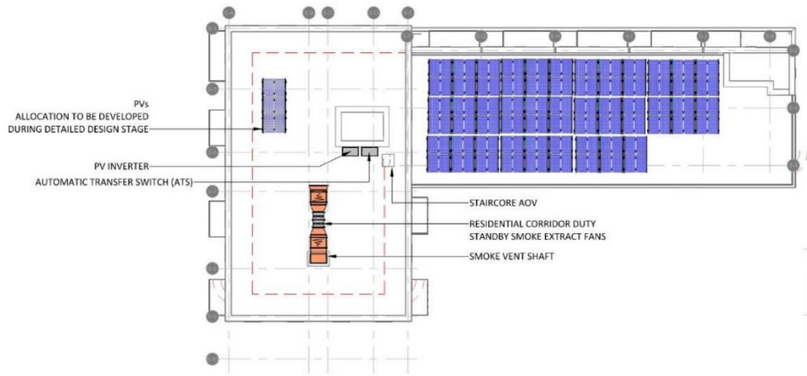
- CHW
- LTHW
- PUBLIC HEALTH
- LANDLORD SERVICES
- SERVICE PROVIDERS
- CONTAINMENT
- INCOMING SERVICES

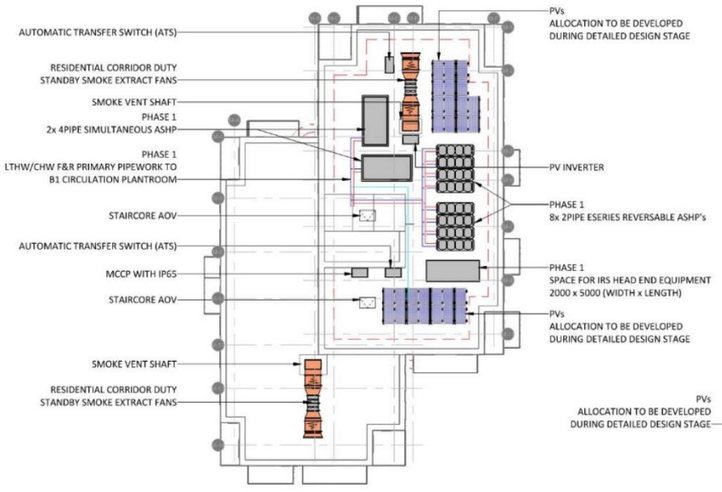
RISER DETAILS:

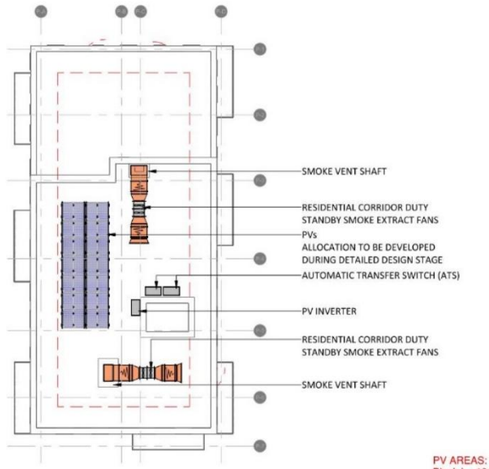
- MECHANICAL RISER
- LIFE SAFETY RISER
- COMMS RISER
- ELECTRICAL RISER
- PUBLIC HEALTH RISER
- SMOKE EXTRACT RISER
- MUC CUPBOARD

TYPICAL ZONE SECTION VIEW OF CONTAINMENT

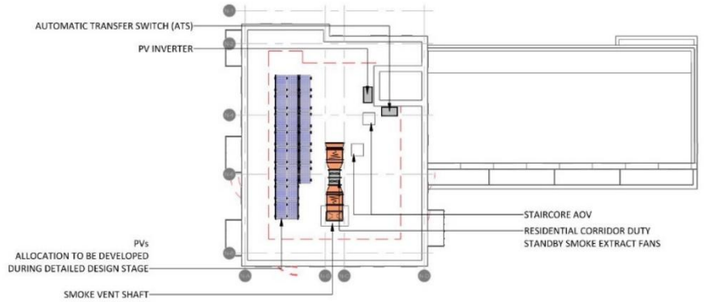
LANDLORD STRUCTURED CABLING 300x50 | VIRGIN MEDIA 150x50 | BT 150x50 | IRS 150x50 | HYPER OPTIC 150x50

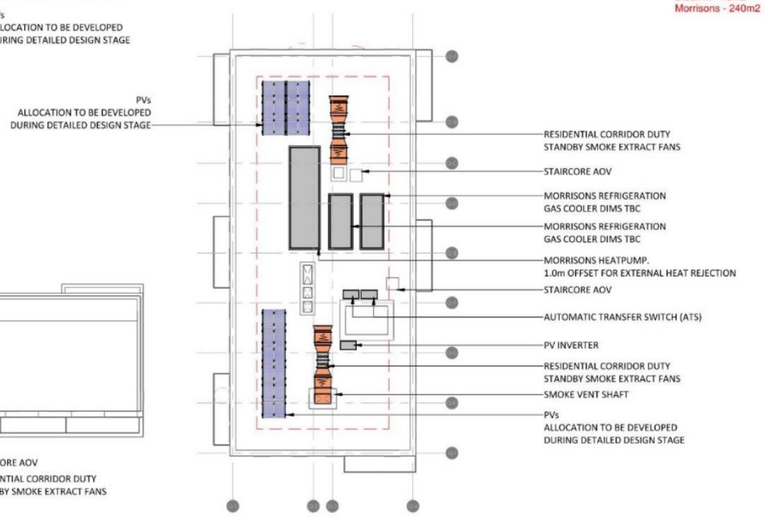






PV AREAS:
Block L - 10m2
Block P - 45m2
Block Q - 35m2
Block N - 35m2
Block M - 45m2
Morrisons - 240m2





REV	DATE	DESCRIPTION
P01	05.08.24	STAGE 2 - ISSUED FOR INFORMATION

CLIENT

Berkeley Designed for life
68 Ale Street
London, E1 8PX

MEP CONSULTANTS

me engineers
Second Floor Euro Centre
5-11 Lavington Street
London SE1 0NZ
T: +44 (0) 207 401 8382
www.me-engineers.com

PROJECT

AYLESHAM CENTRE PECKHAM

TITLE

PHASE 1 - COMBINED SERVICES ROOF LEVEL MEP LAYOUT

ME REF	SCALE (A1)	STATUS	REV
22006	NTS	RIBA 2 CONCEPT DESIGN	P01

DRAWING NUMBER

ASCP-MEE-MR-RF-DGA-Z-001101

QA CHECK	DATE / TIME	DESIGNER	DRAWN	CHECKED
	05/08/2024 16:45:37	HW	GB	Checker

APPENDIX L Site Wide Energy Centre and Potential Connection to Heat Network



CLIENT:
BERKELEY HOMES

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ANY OMISSIONS OR DISCREPANCIES BETWEEN DRAWING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.
CDM REGISTER: FLAGGED H&S ISSUES RELATING TO CONSTRUCTION (DESIGN AND MANAGEMENT) TO BE ADDRESSED DURING DESIGN DEVELOPMENT TO BE READ IN CONJUNCTION WITH DESIGN RISK REGISTER AND RESIDUAL RISK REGISTER.
FURNITURE LOCATIONS ARE ILLUSTRATIVE

NOTES:

KEY

- X Block Reference
- Planning Application Site Boundary
- Primary Entrance
- 1B1P
- 1B2P
- 2B3P
- 2B4P
- 3B5P
- 3B6P
- 2B3P-Duplex
- 2B4P-Duplex
- 3B5P-Duplex
- 3B6P-Duplex
- Wheelchair Accessible Home
- Ancillary/Plant/Back of House
- Flexible Retail/Leisure/ Commercial/Workspace
- Residential Cycle Store
- Supermarket
- Supermarket Service Yard/Plant
- Roof Garden (Residential Amenity)
- Podium (Residential Amenity)
- Green Roof
- Indicative MEP/PV
- 600mm offset

NOTES

1. Contour information is illustrative only.
2. Build heights (AOD) are indicative and subject to Landscape and Banking design development.
3. Architectural design subject to ongoing design development through subsequent RIBA work stages.
4. Structure information is illustrative only, for more information refer to Structure Engineer package.
5. Servicing/Transport information is illustrative only, for more information refer to Transport Statement.
6. Landscape information is illustrative only, for more information refer to Landscape package.
7. Each building is served by at least one core, other than A, B and C which together share two access cores.
8. For residential layout details, refer to 1:100 Drawings in Appendix to the Design and Access Statement.
9. Where shown, areas are in m2, elevation in m, and dims in mm.

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DR	CHK	QA	DATE
P0	For Planning	DR M	RM	JSt	06.24

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Mayden House
1st / Mahony Street
London SE1 2TU UK
+44 (0) 20 7921 0777
mail@drmmstudio.com
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KEY

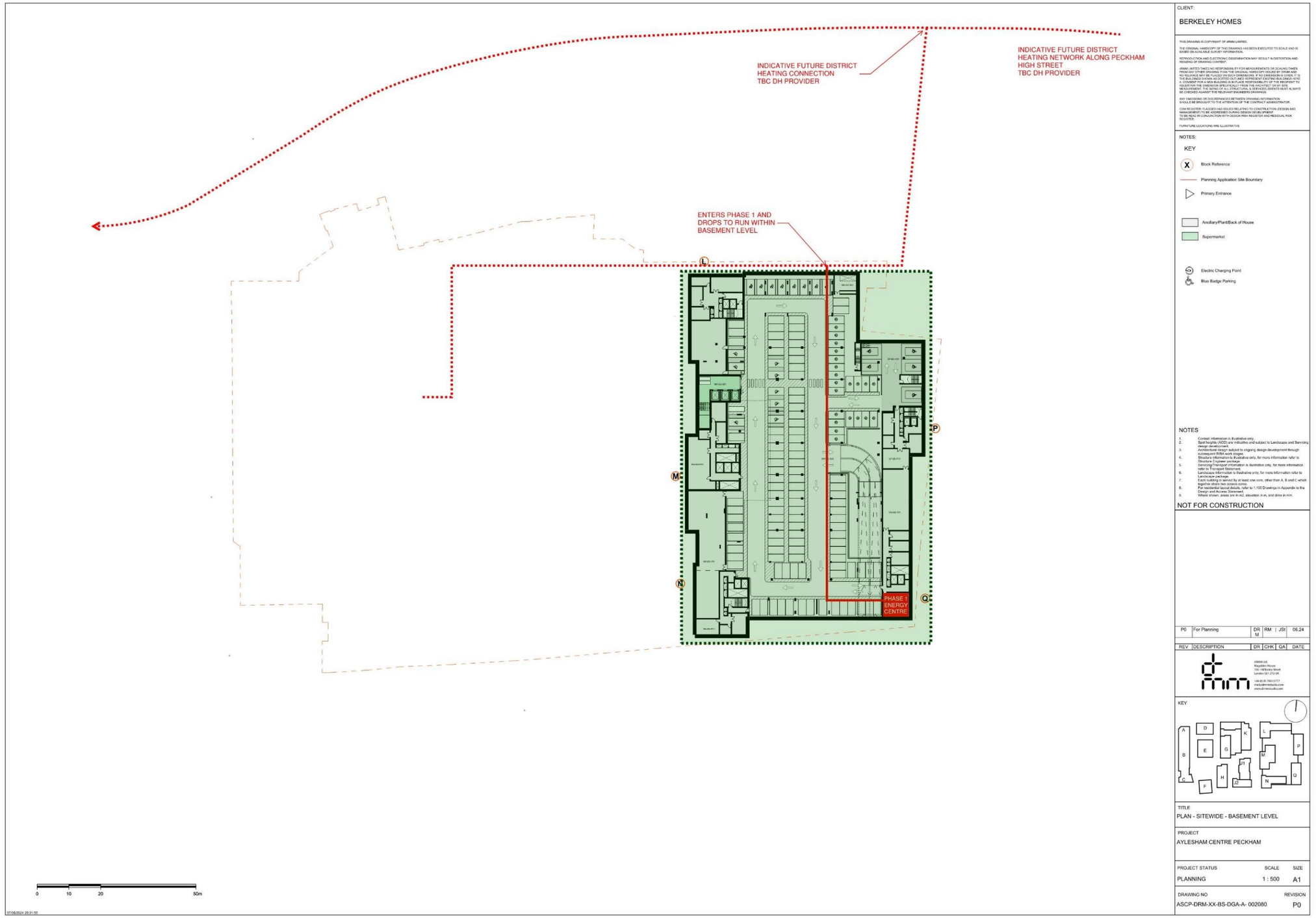
TITLE
PLAN - SITEWIDE - GROUND FLOOR

PROJECT
AYLESHAM CENTRE PECKHAM

PROJECT STATUS	SCALE	SIZE
PLANNING	1 : 500	A1

DRAWING NO	REVISION
ASCP-DRM-XX-00-DGA-A- 002050	P0

07/06/2024 20:27:17



CLIENT:

BERKELEY HOMES

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REPRODUCTION AND ELECTRONIC DISSEMINATION MAY RESULT IN DISTORTION AND RESIZING OF DRAWING CONTENT.

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ANY OMISSIONS OR DISCREPANCIES BETWEEN DRAWING INFORMATION SHOULD BE BROUGHT TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR.

CDM REGISTER: FLAGGED HAS ISSUES RELATING TO CONSTRUCTION (DESIGN AND MANAGEMENT) TO BE ADDRESSED DURING DESIGN DEVELOPMENT TO BE READ IN CONJUNCTION WITH DESIGN RISK REGISTER AND RESIDUAL RISK REGISTER.

FURNITURE LOCATIONS ARE ILLUSTRATIVE

NOTES:

KEY

- Block Reference
- Planning Application Site Boundary
- Primary Entrance
- Ancillary/Plant/Back of House
- Supermarket
- Electric Charging Point
- Blue Badge Parking

NOTES

1. Context information is illustrative only.
2. Spot heights (AOD) are indicative and subject to Landscape and Servicing design development.
3. Building footprint subject to ongoing design development through subsequent RIBA work stages.
4. Structure Information is illustrative only, for more information refer to Structure Engineer package.
5. Servicing/Transport information is illustrative only, for more information refer to Servicing Strategy.
6. Landscape information is illustrative only, for more information refer to Landscape package.
7. Each building is served by at least one core, other than A, B and C which together share two access cores.
8. For residential layout details, refer to 1:100 Drawings in Appendix to the Design and Access Statement.
9. Where shown, areas are in m2, elevation in m, and dims in mm.

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DR	CHK	QA	DATE
P0	For Planning	DR M	RM	JSt	06.24

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London SE1 2TU UK
+44 (0)20 7553 0777
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KEY

TITLE

PLAN - SITEWIDE - BASEMENT LEVEL

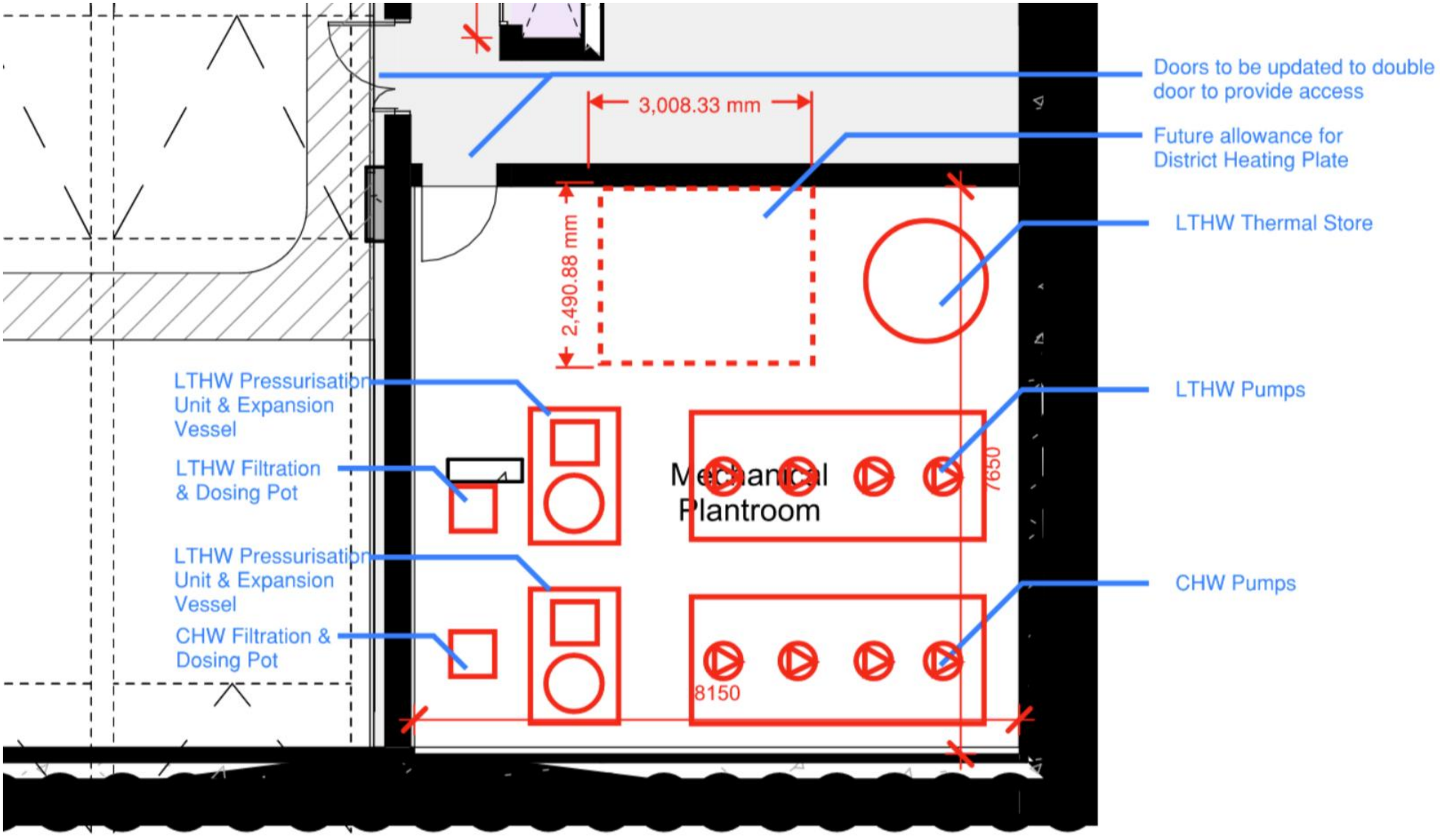
PROJECT

AYLESHAM CENTRE PECKHAM

PROJECT STATUS	SCALE	SIZE
PLANNING	1 : 500	A1

DRAWING NO	REVISION
ASCP-DRM-XX-BS-DGA-A- 002080	P0

07/06/2024 20:31:55



Indicative plantroom layout to be developed at Stage 3

APPENDIX M Stage 2 MVHR Selections

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:37 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO2**
Installation Manual Links:	671795
Required duty:	40 l/s at 100 Pa
Actual duty:	63 l/s at 250 Pa
Actual at required flow:	40 l/s at 457 Pa
When speed controlled to required duty (63.05%):	
Motor Input Power:	**0.039 kW**
At full speed:	
Motor Input Power:	0.155 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	20 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (63.05%)

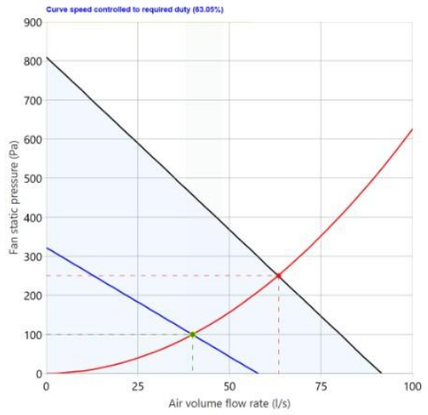
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	48	53	49	47	39	35	23	<16	29
Open Inlet (Intake & Extract)	41	41	53	45	40	36	23	<16	
Open Outlet (Supply & Exhaust)	53	60	58	61	55	53	43	33	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

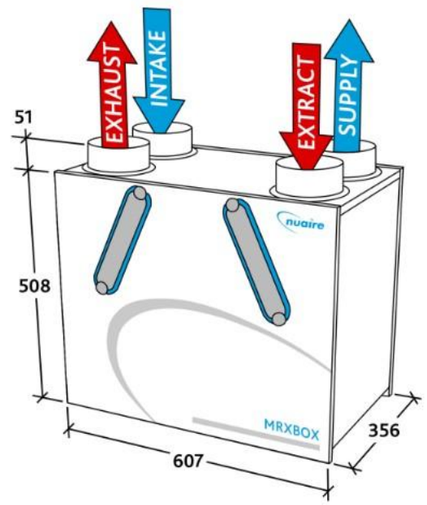
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.
The unit shall be suitable for 125mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
356	607	507

Spigot size: 125
Duct size: 125

Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.52	90%
Kitchen + 2 wet rooms	0.59	89%
Kitchen + 3 wet rooms	0.77	87%
Kitchen + 4 wet rooms	1.0	86%
Kitchen + 5 wet rooms	1.23	86%

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
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This data sheet produced on 14 Mar 2025 15:37 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO2**
Installation Manual Links:	671795
Required duty:	60 l/s at 100 Pa
Actual duty:	74 l/s at 152 Pa
Actual at required flow:	60 l/s at 279 Pa
When speed controlled to required duty (80.9%):	
Motor Input Power:	**0.082 kW**
At full speed:	
Motor Input Power:	0.155 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	20 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (80.9%)

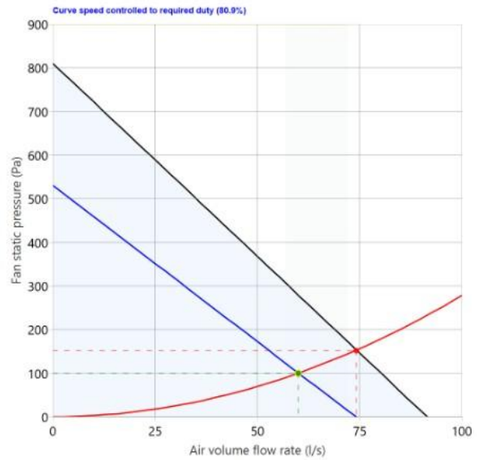
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	53	56	52	50	42	39	27	<16	32
Open Inlet (Intake & Extract)	43	45	56	48	43	39	28	17	
Open Outlet (Supply & Exhaust)	55	62	61	64	59	57	47	38	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.

The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 125mm circular ducting.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

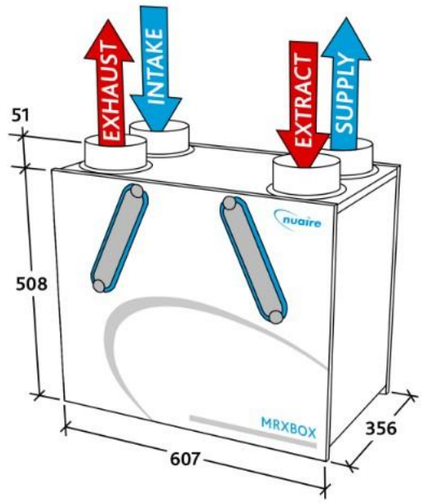
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:37 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
356	607	507

Spigot size:	125
Duct size:	125

Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.52	90%
Kitchen + 2 wet rooms	0.59	89%
Kitchen + 3 wet rooms	0.77	87%
Kitchen + 4 wet rooms	1.0	86%
Kitchen + 5 wet rooms	1.23	86%

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:37 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO2**
Installation Manual Links:	671795
Required duty:	70 l/s at 100 Pa
Actual duty:	78 l/s at 123 Pa
Actual at required flow:	70 l/s at 191 Pa
When speed controlled to required duty (90.05%):	
Motor Input Power:	**0.114 kW**
At full speed:	
Motor Input Power:	0.156 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	20 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (90.05%)

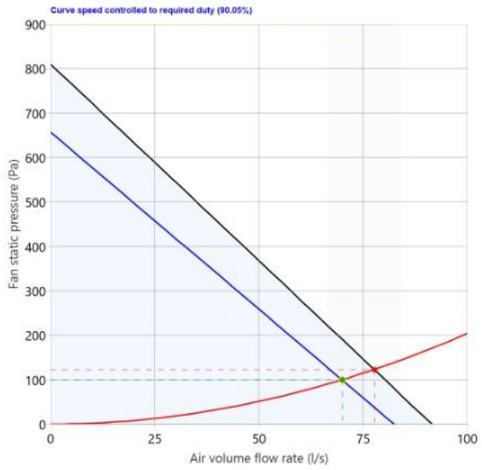
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	55	57	52	51	43	40	28	17	33
Open Inlet (Intake & Extract)	44	46	57	49	45	40	29	20	
Open Outlet (Supply & Exhaust)	55	63	62	65	60	59	48	40	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.

The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 125mm circular ducting.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

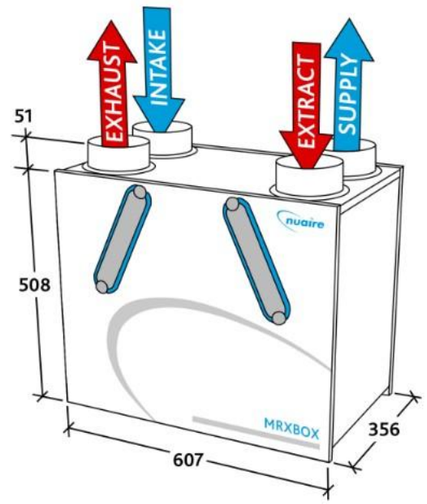
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:37 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
356	607	507

Spigot size: 125
Duct size: 125
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.52	90%
Kitchen + 2 wet rooms	0.59	89%
Kitchen + 3 wet rooms	0.77	87%
Kitchen + 4 wet rooms	1.0	86%
Kitchen + 5 wet rooms	1.23	86%

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:38 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO2**
Installation Manual Links:	671795
Required duty:	75 l/s at 100 Pa
Actual duty:	79 l/s at 111 Pa
Actual at required flow:	75 l/s at 146 Pa
When speed controlled to required duty (94.74%):	
Motor Input Power:	**0.132 kW**
At full speed:	
Motor Input Power:	0.156 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	20 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (94.74%)

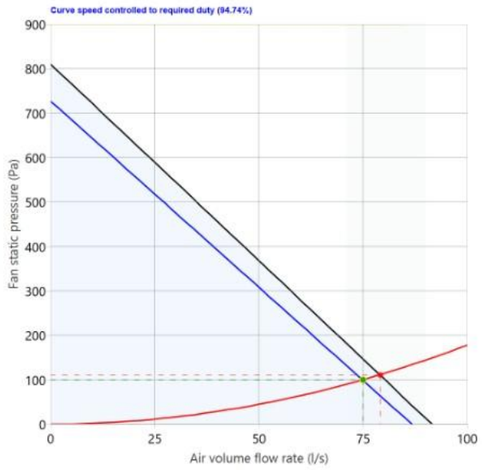
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	57	57	53	52	44	41	29	18	34
Open Inlet (Intake & Extract)	45	47	57	51	45	41	30	22	
Open Outlet (Supply & Exhaust)	55	63	63	66	61	60	49	41	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.

The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 125mm circular ducting.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

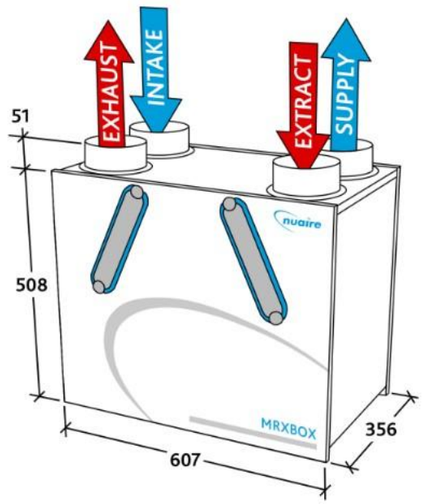
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
356	607	507

Spigot size: 125
Duct size: 125
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.52	90%
Kitchen + 2 wet rooms	0.59	89%
Kitchen + 3 wet rooms	0.77	87%
Kitchen + 4 wet rooms	1.0	86%
Kitchen + 5 wet rooms	1.23	86%

SUMMARY FAN DATA SHEET

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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO3**
Installation Manual Links:	671796
Required duty:	85 l/s at 100 Pa
Actual duty:	90 l/s at 113 Pa
Actual at required flow:	85 l/s at 149 Pa
When speed controlled to required duty (94.07%):	
Motor Input Power:	**0.13 kW**
At full speed:	
Motor Input Power:	0.157 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	24 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (94.07%)

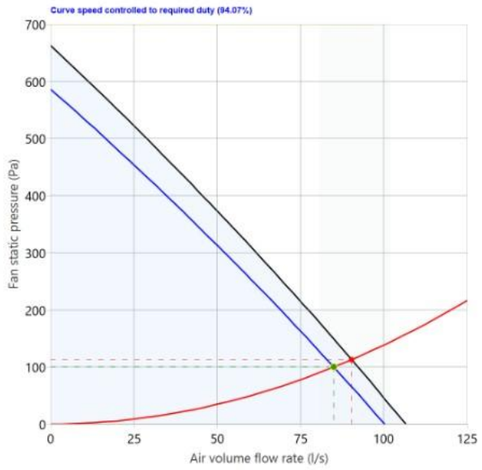
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	55	55	53	52	45	43	29	<16	34
Open Inlet (Intake & Extract)	44	52	57	49	47	41	31	20	
Open Outlet (Supply & Exhaust)	54	62	60	63	59	59	49	41	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.

The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 150mm circular ducting.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

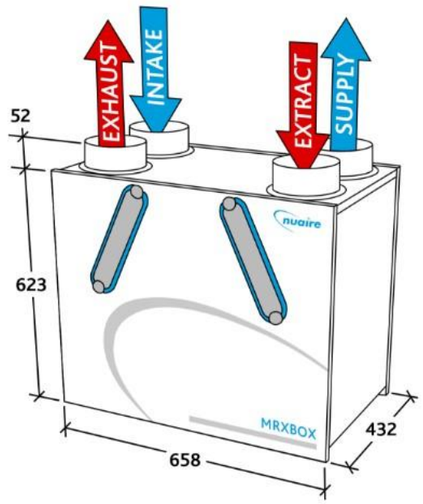
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:38 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
432	658	623

Spigot size: 150
Duct size: 150

Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.5	90%
Kitchen + 2 wet rooms	0.53	90%
Kitchen + 3 wet rooms	0.6	89%
Kitchen + 4 wet rooms	0.75	88%
Kitchen + 5 wet rooms	0.92	88%
Kitchen + 6 wet rooms	1.1	87%
Kitchen + 7 wet rooms	1.36	87%

SUMMARY FAN DATA SHEET

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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO3**
Installation Manual Links:	671796
Required duty:	90 l/s at 100 Pa
Actual duty:	92 l/s at 104 Pa
Actual at required flow:	90 l/s at 115 Pa
When speed controlled to required duty (98.25%):	
Motor Input Power:	**0.149 kW**
At full speed:	
Motor Input Power:	0.157 kW
Maximum Fan Speed:	3,750 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	1.2 A
Max. operating temp:	40°C
Weight:	24 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (98.25%)

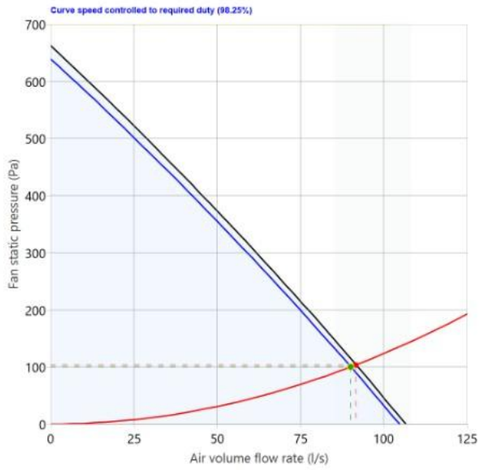
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	56	56	54	52	45	43	30	<16	35
Open Inlet (Intake & Extract)	44	52	57	49	47	42	31	20	
Open Outlet (Supply & Exhaust)	55	63	60	63	59	59	50	42	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.

The unit shall be supplied complete with a condensate drip tray and 21.5mm drain connection.

The unit shall be suitable for 150mm circular ducting.

The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.

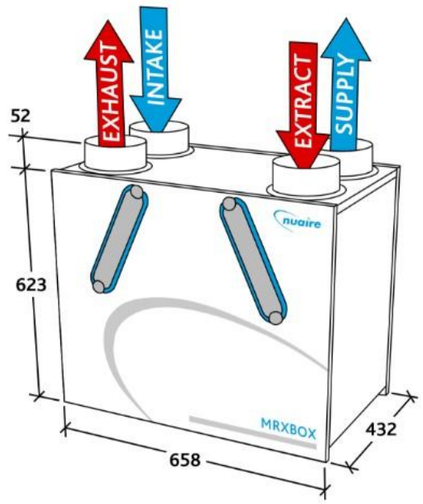
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
432	658	623

Spigot size: 150
Duct size: 150
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.5	90%
Kitchen + 2 wet rooms	0.53	90%
Kitchen + 3 wet rooms	0.6	89%
Kitchen + 4 wet rooms	0.75	88%
Kitchen + 5 wet rooms	0.92	88%
Kitchen + 6 wet rooms	1.1	87%
Kitchen + 7 wet rooms	1.36	87%

SUMMARY FAN DATA SHEET

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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	95 l/s at 100 Pa
Actual duty:	139 l/s at 214 Pa
Actual at required flow:	95 l/s at 495 Pa
When speed controlled to required duty (68.49%):	
Motor Input Power:	**0.113 kW**
At full speed:	
Motor Input Power:	0.351 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (68.49%)

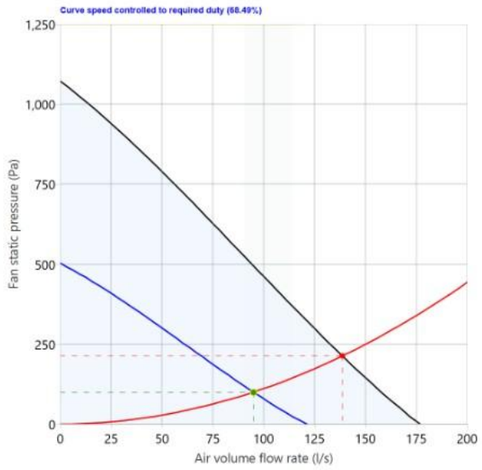
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	55	59	59	51	41	34	24	<16	35
Open Inlet (Intake & Extract)	47	51	51	50	43	39	26	18	
Open Outlet (Supply & Exhaust)	55	62	63	62	55	54	46	41	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

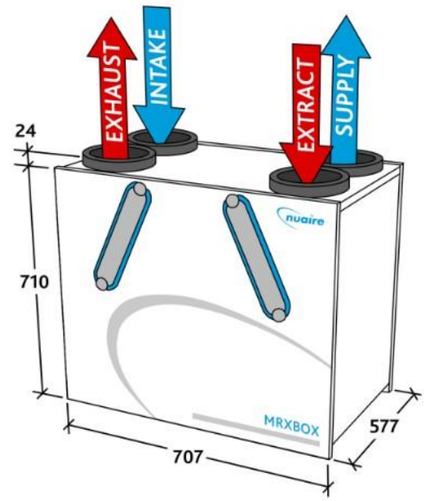
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

SUMMARY FAN DATA SHEET

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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	100 l/s at 100 Pa
Actual duty:	141 l/s at 199 Pa
Actual at required flow:	100 l/s at 462 Pa
When speed controlled to required duty (70.86%):	
Motor Input Power:	**0.125 kW**
At full speed:	
Motor Input Power:	0.351 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (70.86%)

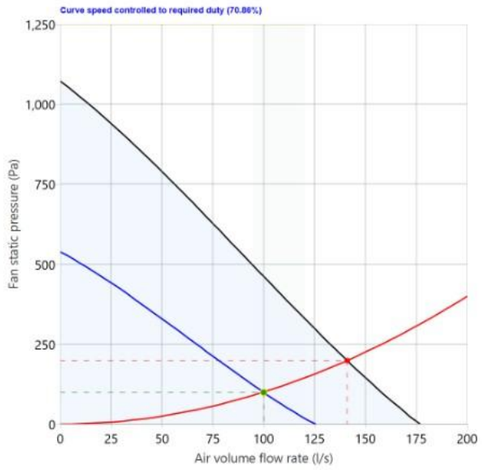
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	56	59	59	52	41	35	25	<16	35
Open Inlet (Intake & Extract)	48	51	52	50	43	39	27	18	
Open Outlet (Supply & Exhaust)	55	62	64	63	56	55	47	42	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

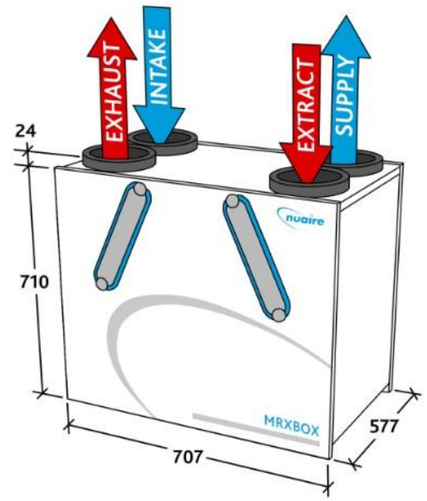
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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This data sheet produced on 14 Mar 2025 15:39 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

SUMMARY FAN DATA SHEET

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This data sheet produced on 14 Mar 2025 15:40 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	105 l/s at 100 Pa
Actual duty:	143 l/s at 186 Pa
Actual at required flow:	105 l/s at 429 Pa
When speed controlled to required duty (73.33%):	
Motor Input Power:	**0.139 kW**
At full speed:	
Motor Input Power:	0.352 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (73.33%)

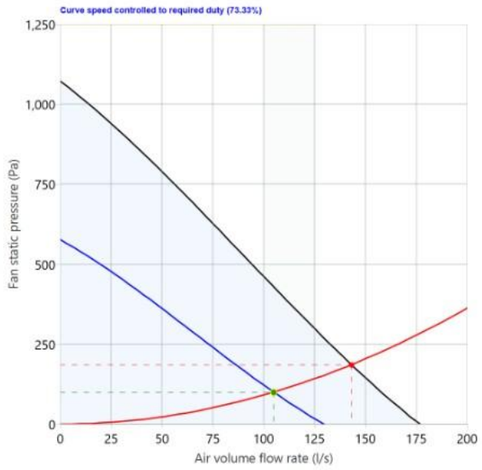
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	56	59	59	53	42	35	25	<16	36
Open Inlet (Intake & Extract)	48	52	52	51	44	40	28	19	
Open Outlet (Supply & Exhaust)	56	62	64	64	56	55	48	42	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

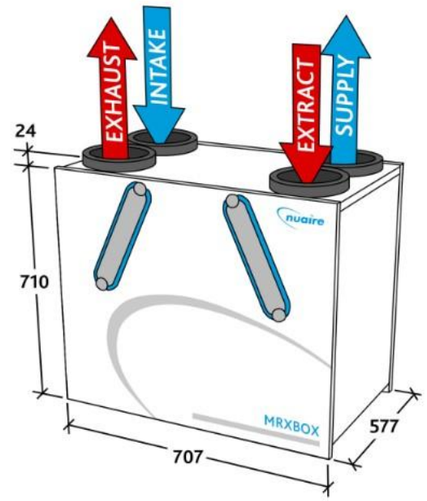
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The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
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The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

SUMMARY FAN DATA SHEET

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Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	110 l/s at 100 Pa
Actual duty:	145 l/s at 174 Pa
Actual at required flow:	110 l/s at 396 Pa
When speed controlled to required duty (75.73%):	
Motor Input Power:	**0.153 kW**
At full speed:	
Motor Input Power:	0.352 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (75.73%)

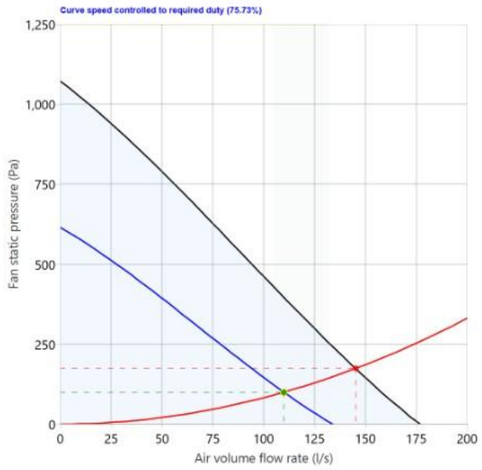
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	57	59	60	53	42	36	26	16	36
Open Inlet (Intake & Extract)	48	52	53	52	44	40	28	20	
Open Outlet (Supply & Exhaust)	56	62	64	64	57	56	48	43	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

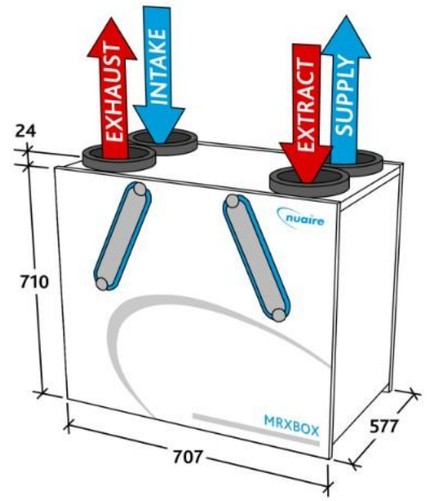
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:40 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:40 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	115 l/s at 100 Pa
Actual duty:	147 l/s at 164 Pa
Actual at required flow:	115 l/s at 363 Pa
When speed controlled to required duty (78.24%):	
Motor Input Power:	**0.169 kW**
At full speed:	
Motor Input Power:	0.352 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (78.24%)

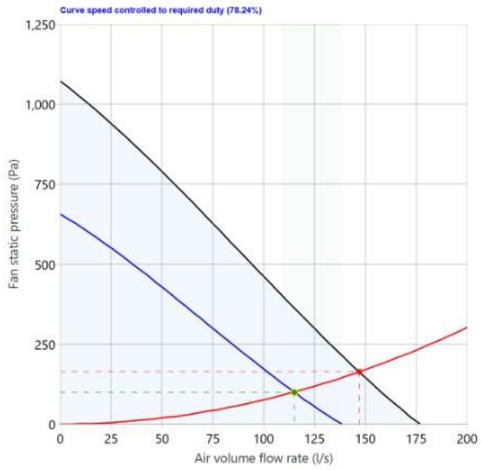
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	57	60	60	54	43	36	26	17	37
Open Inlet (Intake & Extract)	49	52	53	52	45	41	29	20	
Open Outlet (Supply & Exhaust)	56	62	64	65	57	56	49	44	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

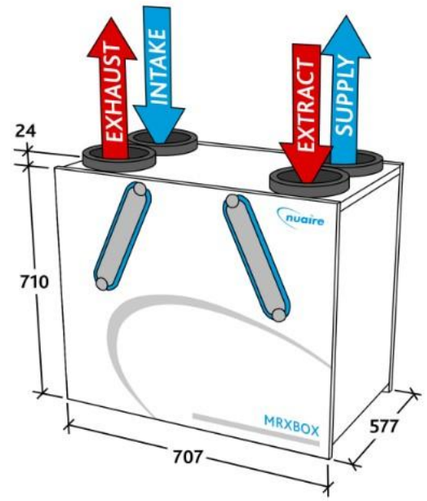
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497
Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:40 using software version 5.8.4590.0

Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

SUMMARY FAN DATA SHEET

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk
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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.
This data sheet produced on 14 Mar 2025 15:41 using software version 5.8.4590.0

Technical Data

MRXBOX-ECO - Wall Mounted Multi Room Xbox

Fan Code:	**MRXBOXAB-ECO4**
Installation Manual Links:	671797
Required duty:	120 l/s at 100 Pa
Actual duty:	149 l/s at 153 Pa
Actual at required flow:	120 l/s at 331 Pa
When speed controlled to required duty (80.7%):	
Motor Input Power:	**0.185 kW**
At full speed:	
Motor Input Power:	0.352 kW
Maximum Fan Speed:	3,230 RPM
Electrical Supply:	230V, 1 Phase, 50 Hz
Motor current (flc):	2.4 A
Max. operating temp:	40°C
Weight:	44 kg

Starting currents are nominal.

Sound Data

Acoustic perfomance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (80.7%)

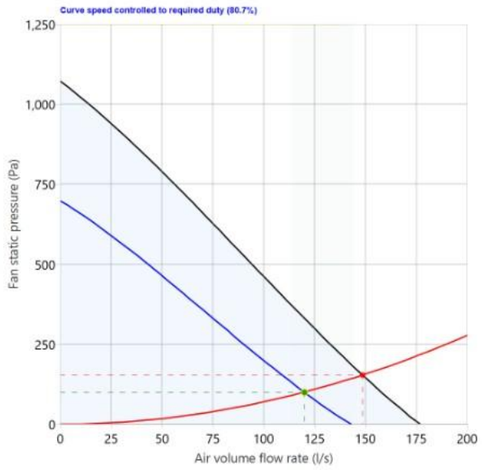
Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Breakout	58	60	60	55	43	36	27	17	37
Open Inlet (Intake & Extract)	49	52	53	53	45	41	30	21	
Open Outlet (Supply & Exhaust)	57	63	64	66	58	57	49	44	

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Chart



Specification

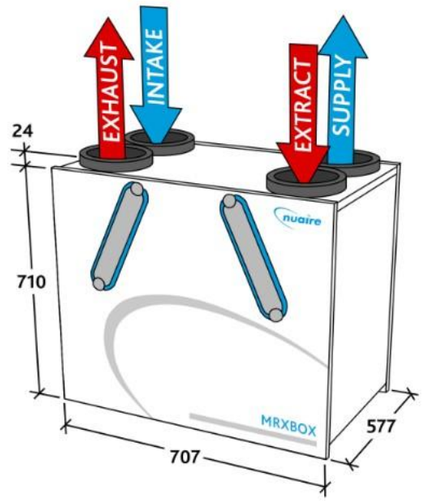
The unit shall be fully insulated providing excellent thermal and acoustic characteristics and shall be complete with a multi plate counter flow high efficiency heat exchanger block, with a thermal efficiency of up to 95%. The heat exchanger shall be protected by filters on fresh air inlet and system extract. The heat exchanger and filters shall be accessible via the front access panel, enabling quick and easy maintenance.
The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings, the impellers shall be backward curved centrifugal type. The motors shall be suitable for an ambient temperature of 40°C.
The unit shall be supplied complete with a condensate drip tray and 32mm drain connection.
The unit shall be suitable for both 200mm and 180mm circular ducting.
The breakout noise level and power requirements shall be as detailed by the unit manufacturer and in accordance with the ventilation equipment schedule.
The unit shall be offered with a five year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

SUMMARY FAN DATA SHEET

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Fan Dimensions

SPIGOT CONFIGURATION SHOWN IS VALID FOR THE STANDARD HANDED UNIT ONLY. OPPOSITE HANDED UNIT IS ALSO AVAILABLE UPON REQUEST.



Length:	Width:	Height:
577	707	710

Spigot size: 200
Duct size: 200
Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

SAP Appendix Q Test Results

Application	Specific Fan Power (W/l/s)	Heat Exchange Efficiency %
Kitchen + 1 wet room	0.62	94%
Kitchen + 2 wet rooms	0.62	93%
Kitchen + 3 wet rooms	0.66	93%
Kitchen + 4 wet rooms	0.79	92%
Kitchen + 5 wet rooms	0.94	91%
Kitchen + 6 wet rooms	1.15	91%
Kitchen + 7 wet rooms	1.41	91%

WHOLE HOUSE MECHANICAL VENTILATION
WITH HEAT RECOVERY - MVHR

WALL MOUNTED **STANDARD** MVHR

EIS 230

TAKE FLÄKT HOME



EIS 230 **QUICK FACTS**

- With summer bypass and frost-stat
- Efficient, low energy solution to control moisture and pollution in residential properties up to 400m²
- up to 89% heat exchange efficiency
- Variable choice of low (trickle), boost and purge speed at installation
- For wall, cupboard or loft installation
- Universal handing for models without humidistat
- Low noise
- Low running costs
- complies with Building Regulations Parts L1A 2013 and F 2013
- Manufactured in UK to ISO 9001
- Accurate commissioning via optional integral LCD or remote LCD commissioning unit

GENERAL FEATURES

- Up to 230 litre/sec at 50pa - max 238 litre/sec capacity
- Sfp down to 0.46 W/l/s
- Summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- Frost-stat
- Run-time and power outage counters
- Easy to install and maintain
- Easy to access ISO Coarse filters
- Universal handing for models without humidistat - left or right
- For fitting vertically into lofts, or cupboards - wall fixing bracket supplied
- Variable low (trickle), boost and purge options for each motor
- Boost speed can be activated by a 230v switched live from:
  - A light switch (if more than one light switch is used, each one must be a double pole switch)
  - Remote humidistat
  - Passive infra red
  - Remote switch/pull cord - 230V
- Ultra quiet
- Low running costs

CONTROL FEATURES - STANDARD

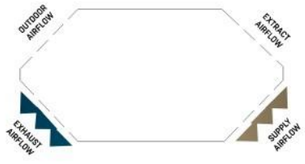
- Independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- Adjustable boost speed over-run timer from 0 to 90 minutes.
- Adjustable boost speed delay from 0 to 5 minutes
- Remote purge - adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- Adjustable night time boost and purge inhibitor
- Integral frost-stat - proportionally reduces intake motor speed as temperature falls
- Automatic summer bypass

CONTROL FEATURES - CUSTOMISED FACTORY SETTINGS

- Change of ductwork handing on humidistat version (trip point can be set at manufacture)
- Integral humidistat - proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
  - BMS - for remote motor shut-off
  - CO_2 detector
  - Home automation system
- Relay for external pre-heater
- 3 Speed selector switch
- Remote purge
- Purge speed over-run time
- Holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- Run-time and power outage counters downloadable via QR code.

TECHNICAL FEATURES

- Compact unit - casing from steel sheet - epoxy paint finish
- Foam construction lining
- Low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- Operates in temperature up to 60 C
- Easy to access standard, disposable ISO Coarse filters
- Counter flow heat exchanger



COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- Manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

WHOLE HOUSE MECHANICAL VENTILATION
WITH HEAT RECOVERY - MVHR

TECHNICAL CHARACTERISTICS

Model	Airflow l/sec					Total Power - Watts				
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%
EIS 230	238	186	135	84	35	355	184	85	32	8

EIS 230		Sound Power Levels, Lw (dB) - Octave Bands Frequency Hz.								Sound Pressure dBA @ 3m
Curve Ref		63	125	250	500	1k	2k	4k	8k	
100% (238 l/sec)	Extract	67	63	66	64	64	61	58	54	
	Supply	72	68	71	69	69	66	63	59	
	Breakout	67	65	64	57	51	53	49	32	43.1
80% (186 l/sec)	Extract	63	58	61	59	58	55	51	46	
	Supply	68	63	66	64	63	60	56	51	
	Breakout	62	59	60	52	45	44	39	28	37.4
60% (135/sec)	Extract	58	52	53	51	51	48	43	35	
	Supply	63	57	58	56	56	53	48	40	
	Breakout	58	54	57	45	39	37	31	25	32.8
40% (84 l/sec)	Extract	51	44	44	42	42	37	31	21	
	Supply	56	49	49	47	47	42	36	26	
	Breakout	52	47	48	41	36	31	26	23	26.0
20% (35/sec)	Extract	40	32	30	29	27	24	14	16	
	Supply	45	37	35	34	32	29	22	25	
	Breakout	44	36	34	33	31	28	20	21	24.0

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit
All the above data has been independently tested to BS EN ISO 3743-1:2010

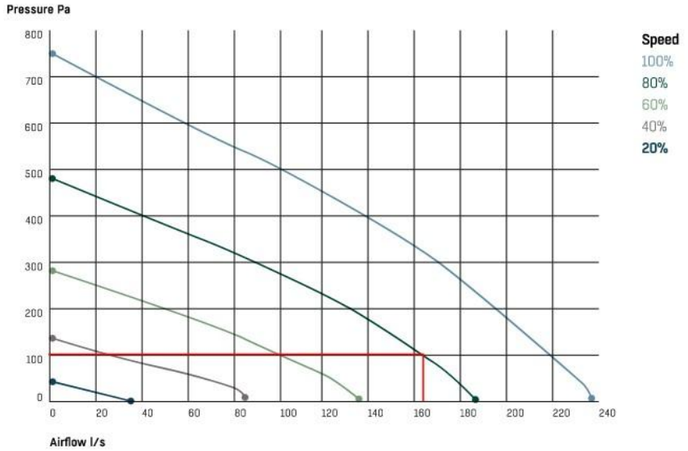
RESULTS for SAP CALCULATIONS ENERGY LEVEL PERFORMANCE - using rigid ducting only						
	2009 Data			2012 Data		
Exhaust Terminal Configuration	Airflow (l/sec)	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency	Airflow (l/sec)	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency
Kitchen + 1 additional wet room	15	0.75	89%	21	0.56	89%
Kitchen + 2 additional wet rooms	21	0.56	89%	29	0.47	89%
Kitchen + 3 additional wet rooms	27	0.46	89%	37	0.50	88%
Kitchen + 4 additional wet rooms	33	0.46	88%	45	0.56	87%
Kitchen + 5 additional wet rooms	39	0.49	88%	53	0.66	86%
Kitchen + 6 additional wet rooms	45	0.55	87%	61	0.78	85%
Kitchen + 7 additional wet rooms	51	0.63	86%	69	0.94	84%

Figures at minimum flow rate conditions

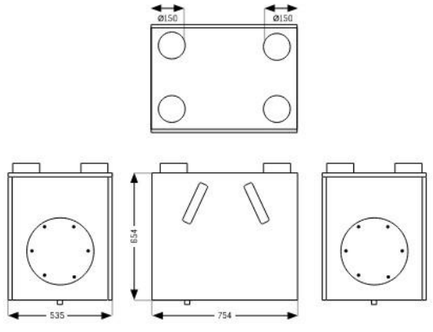
EIS 230

TECHNICAL DATA

PERFORMANCE



DIMENSIONS - MM



MODELS AVAILABLE

- EIS 230 BYPASS UNIVERAL
- EIS 230 / LCD BYPASS UNIVERAL INTEGRAL LCD
- EIS 230 / LH BYPASS, LEFT HANDED, HUMIDISTAT
- EIS 230 / LH/ LCD BYPASS, LEFT HANDED, HUMIDISTAT, INTEGRAL LCD
- EIS 230 / RH BYPASS, RIGHT HANDED, HUMIDISTAT
- EIS 230 / RH / LCD BYPASS, RIGHT HANDED, HUMIDISTAT, INTEGRAL LCD

WHOLE HOUSE MECHANICAL VENTILATION
WITH HEAT RECOVERY - MVHR

WALL MOUNTED ACOUSTIC MVHR

WHISPER RANGE

TAKE FLÄKT HOME

EIS 230 - WHISPER



EIS 230 - WHISPER **QUICK FACTS**

- Very low noise levels - lined with Class "0" fire resistant acoustic foam
- With summer bypass and frost-stat
- Efficient, low energy solution to control moisture and pollution in residential properties up to 400m²
- Up to 89% heat exchange efficiency
- Variable choice of low (trickle), boost and purge speed at installation
- For wall, cupboard or loft installation - no extra cabinet required
- Universal handing for models without humidistat
- Low running costs
- Complies with Building Regulations Parts L1A 2013 and F 2013
- Manufactured in UK to ISO 9001
- Accurate commissioning via integral touch screen LCD

TECHNICAL DATA

GENERAL FEATURES

- Up to 230 litre/sec at 50pa - max 238 litre/sec capacity
- Sfp down to 0.46 W/l/s
- Summer bypass which allows the airflow to bypass the heat exchanger automatically when internal and external temperatures are between adjustable setpoints.
- Frost-stat
- Run-time and power outage counters
- Easy to install and maintain
- Easy to access ISO Coarse filters
- Universal handing for models without humidistat - left or right for fitting vertically into lofts, or cupboards - wall fixing bracket supplied-- weight only 42 kgs
- Variable low (trickle), boost and purge options for each motor
- Boost speed can be activated by a 230V switched live from:
  - A light switch (if more than one light switch is used, each one must be a double pole switch)
  - Remote humidistat
  - Passive infra red
  - Remote switch/pull cord
- Low running costs

TECHNICAL FEATURES

- Casing from steel sheet - epoxy paint finish
- Foam construction lining
- Low energy EC brushless motor with single width, single inlet, direct drive, forward curved impellors
- Operates in temperature up to 60 C
- Easy to access standard, disposable ISO Coarse filters
- Counter flow heat exchanger



CONTROL FEATURES - STANDARD

- Independent variable speed adjustment for each motor for trickle, boost and purge speeds.
- Adjustable boost speed over-run timer from 0 to 90 minutes.
- Adjustable boost speed delay from 0 to 5 minutes
- Remote purge - adjustable over-run timer from 0 to 250 minutes, pre-set to 15 minutes (adjustable at factory).
- Adjustable night time boost and purge inhibitor
- Integral frost-stat - proportionally reduces intake motor speed as temperature falls
- Automatic summer bypass

CONTROL FEATURES - CUSTOMISED FACTORY SETTINGS

- Change of ductwork handing on humidistat version (trip point can be set at manufacture)
- Integral humidistat - proportionally increases motor speeds with rising humidity
- 0-10V connections can be added for:
  - BMS - for remote motor shut-off
  - CO_2 detector
  - Home automation system
- Relay for external pre-heater
- 3 Speed selector switch
- Remote purge
- Purge speed over-run time
- Holiday mode for reduced speeds when property is unoccupied (factory set option) - default setting is 50% of trickle speed
- Run-time and power outage counters downloadable via QR code.

COMPLIES WITH

- Part L1A 2013 of Building Regulations for enhanced energy saving capability
- Part F 2013 of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Complies with IEC60335-2-80, LVD2006/95/CE and EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
- Manufactured in UK to ISO 9001
- CE marked
- SAP PCDB Listed

WHOLE HOUSE MECHANICAL VENTILATION
WITH HEAT RECOVERY - MVHR

TECHNICAL CHARACTERISTICS

Model	Airflow l/sec					Total Power - Watts				
	100%	80%	60%	40%	20%	100%	80%	60%	40%	20%
EIS 230 - WHISPER	238	186	135	84	35	355	184	85	32	8

EIS 230 - WHISPER	Sound Power Levels, Lw (dB) - Octave Bands Frequency Hz.									Sound Pressure dBA @ 3m	Noise Rating based on dB @ 1m
Curve Ref		63	125	250	500	1k	2k	4k	8k		
100% (238 l/sec	Extract	61	63	57	49	43	34	28	54		
	Supply	75	79	74	66	63	52	52	59		
	Breakout	61	61	56	49	52	46	29	32	41.1	47
80% (186 l/sec)	Extract	57	59	51	44	37	28	23	46		
	Supply	71	71	66	60	58	46	47	51		
	Breakout	57	57	48	43	44	38	22	28	34.9	40
60% (135 l/sec)	Extract	51	55	45	36	27	15	8	36		
	Supply	64	68	60	51	48	34	29	41		
	Breakout	51	54	42	37	36	28	10	24	28.9	37
40% (84 l/sec)	Extract	49	44	35	26	17	4	6	21		
	Supply	59	52	48	41	36	19	12	26		
	Breakout	52	38	36	25	21	11	7	21	20.7	26
20% 35 l/sec	Extract	36	36	28	12	3	2	6	11		
	Supply	42	41	31	21	12	2	6	15		
	Breakout	35	31	15	7	1	3	7	14	5.8	12

The breakout dB(A) sound pressure values are given for hemispherical free field propagation at a distance of 3m from the unit
All the above data has been independently tested to BS EN ISO 3743-1:2010

RESULTS for SAP CALCULATIONS
ENERGY LEVEL PERFORMANCE - using rigid ducting only

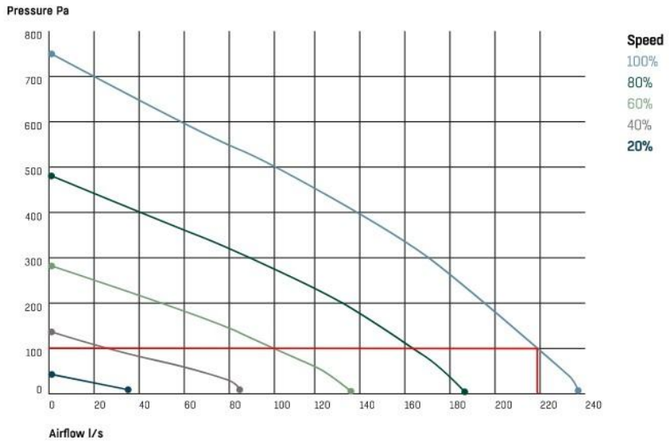
	2009 Data			2012 Data		
Exhaust Terminal Configuration	Airflow (l/sec)	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency	Airflow (l/sec)	Specific Fan Power (W/l/sec)	Heat Exchange Efficiency
Kitchen + 1 additional wet room	15	0.75	89%	21	0.56	89%
Kitchen + 2 additional wet rooms	21	0.56	89%	29	0.47	89%
Kitchen + 3 additional wet rooms	27	0.46	89%	37	0.50	88%
Kitchen + 4 additional wet rooms	33	0.46	88%	45	0.56	87%
Kitchen + 7 additional wet rooms	51	0.63	86%	69	0.94	84%

Figures at minimum flow rate conditions

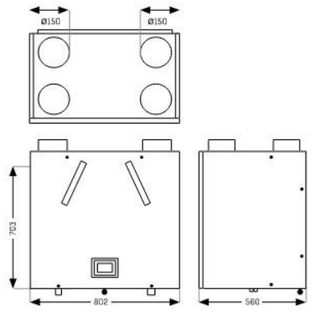
EIS 230 - WHISPER

TECHNICAL DATA

PERFORMANCE



DIMENSIONS - MM



MODELS AVAILABLE

- EIS 230 / WHISPER / LCD BYPASS, ATTENUATION, UNIVERSAL, INTEGRAL LCD
- EIS 230 / WHISPER /LH / LCD BYPASS, ATTENUATION, LEFT HANDED, HUMIDISTAT, INTEGRAL LCD
- EIS 230 / WHISPER / RH / LCD BYPASS, ATTENUATION, RIGHT HANDED, HUMIDISTAT, INTEGRAL LCD

me | engineers

Appendix N: Energy centres Heat Pump Data sheet

Chillers | Technical Information

MITSUBISHI ELECTRIC

R32 e-series Modular Chiller Range

Project Reference	Aylesham Project - Phase 1
Quote Reference	0
Prepared By	John Keegan



les.mitsubishielectric.co.uk

VR32-1.6

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

ErP 2021 COMPLIANT

MITSUBISHI ELECTRIC

Important Note

EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Note: The applications for e-series have been divided into three types: Cooling Only, Heating&Cooling, Heating Only. The Heating Only applications share similar features with the Heating&Cooling applications, except for the total minimum water circulation volume, which differs. In the case of Heating Only, the total minimum water volume has been calculated based on the assumption that for multi-unit systems with more than 6 unites, grouping of 6 units method is considered. Please regard this calculation as guidance. For each project involving "Heating Only" applications, the total minimum water volume needs to be calculated. Please refer to the Databook in the following link for this calculation:
https://library.mitsubishielectric.co.uk/pdf/book/DB_MEES23K029_e-series_YCL_JL23#page-1

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Technical Selection Page 1 / 7

EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Refrigerant		
Refrigerant Type		R32
GWP		675
Total Charge Per Unit	kg	46
Equivalent CO_2 Emissions per Unit	kg	31,050

Compressors		
Compressor Type		Inverter Scroll Hermetic Compressor
Starting Method		Inverter
Number of Compressors per Unit	No.	4
Compressor Motor Output (per Compressor)	kW	11.5

Water Side Heat Exchangers		
Heat Exchanger Type		Stainless Steel Plate
Minimum Water Circuit Volume per Unit	Litres	1650/850
Total Minimum Water Circuit Volume	Litres	6800

Fans		
Fan Type		Propeller Fan
Starting Method		Inverter
Number of Fans per Unit	No.	4
Total Airflow per Unit	l/s	18000
Fan Motor Output (per Fan)	kW	0.92
Available External Static Pressure	Pa	20

Electrical Data		
Power Supply per Unit	V/ph/Hz	380-415V/3-phase/50Hz
Max Total Current per Unit	A	120
Starting Current per Unit	A	23.1

Weight		
Weight per Unit (with headers)	kg	1307
Total Weight (with Headers)	kg	10456

Technical Selection Page 2 / 7

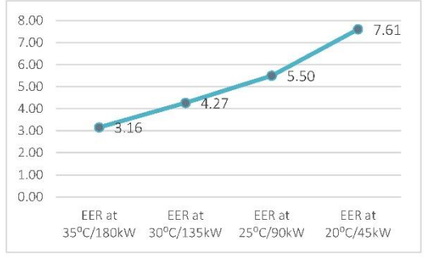
EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Seasonal Efficiencies - SEER User Defined

Prated,c	kW	180
Fluid Outlet Temp	°C	7
SEER*	kW/kW	5.51

EER at 35°C/180kW	kW/kW	3.16
EER at 30°C/135kW	kW/kW	4.27
EER at 25°C/90kW	kW/kW	5.50
EER at 20°C/45kW	kW/kW	7.61



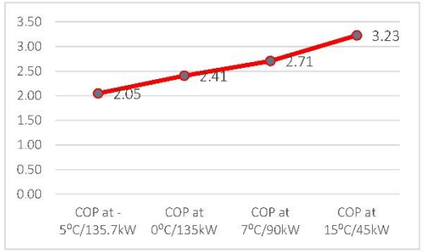
*SEER given as an indication based on the guidance found in Part L of the building regulations with a fixed flow rate of 8.6l/s.

SEER = (0.03*EER@35°C)+(0.33*EER@30°C)+(0.41*EER@25°C)+(0.23*EER@20°C)

Seasonal Efficiencies - SCOP User Defined

Prated,h	kW	135.7
Fluid Outlet Temp	°C	55
SCOP**	kW/kW	2.61

COP at -5°C/135.7kW	kW/kW	2.05
COP at 0°C/135kW	kW/kW	2.41
COP at 7°C/90kW	kW/kW	2.71
COP at 15°C/45kW	kW/kW	3.23



**SCOP given as an indication based on simplified ambient temperatures and weighting from EN18525 with a fixed flow rate of 8.6l/s.

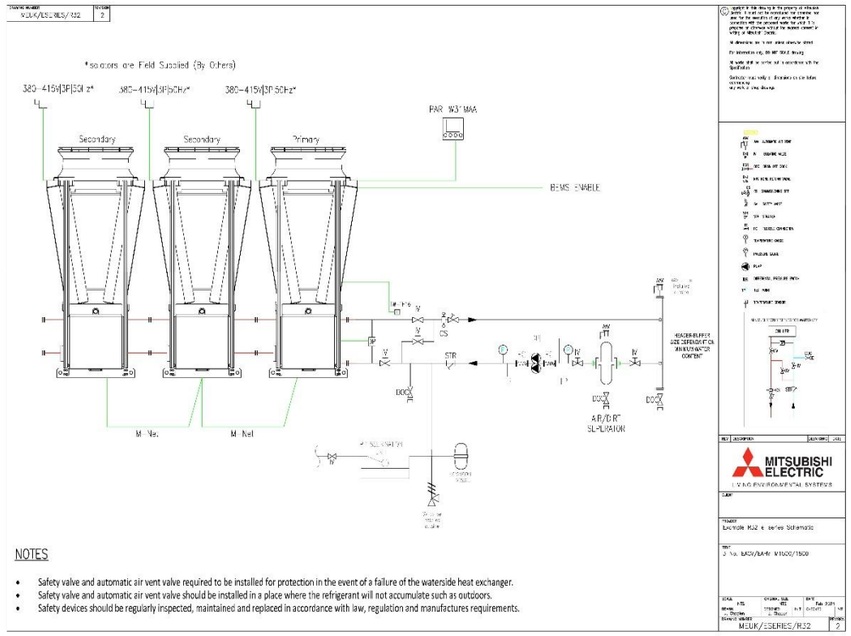
SCOP = (0.05*COP@-5°C)+(0.4*COP@0°C)+(0.45*COP@7°C)+(0.1*COP@15°C)

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EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Example Schematic



NOTES

- Safety valve and automatic air vent valve required to be installed for protection in the event of a failure of the waterside heat exchanger.
- Safety valve and automatic air vent valve should be installed in a place where the refrigerant will not accumulate such as outdoors.
- Safety devices should be regularly inspected, maintained and replaced in accordance with law, regulation and manufactures requirements.

Water Filtration

Strainer	Magnetic Filter	Air Dirt Separator
20 Mesh or More (Minimum)	Recommended if steel pipe	Minimum

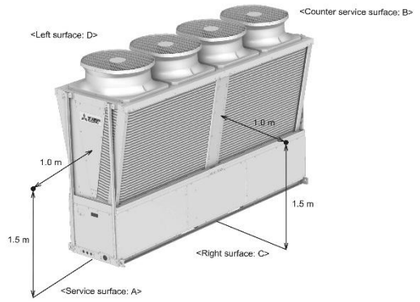
Minimum-Without this filtration method the installations risks not receiving full warranty.
Recommended -This filtration method has recognised benefits for this type of system but its inclusion will not affect warranty

EAHV-M1800YCL(-N)

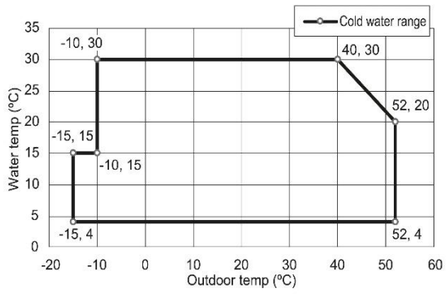
Air Source Reversible Heat Pump / Chiller

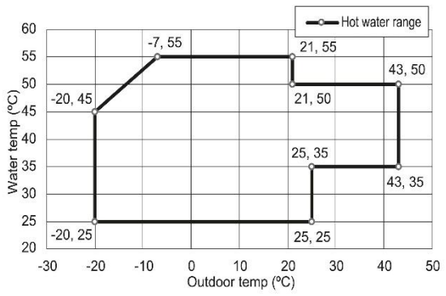
Noise Level

EAHV-M1800YCL(-N)	
Measured Location	Sound Pressure Level dB(A)
Service Surface A	67
Counter Service Surface B	67
Right Surface C	71
Left Surface D	71



Operating Window





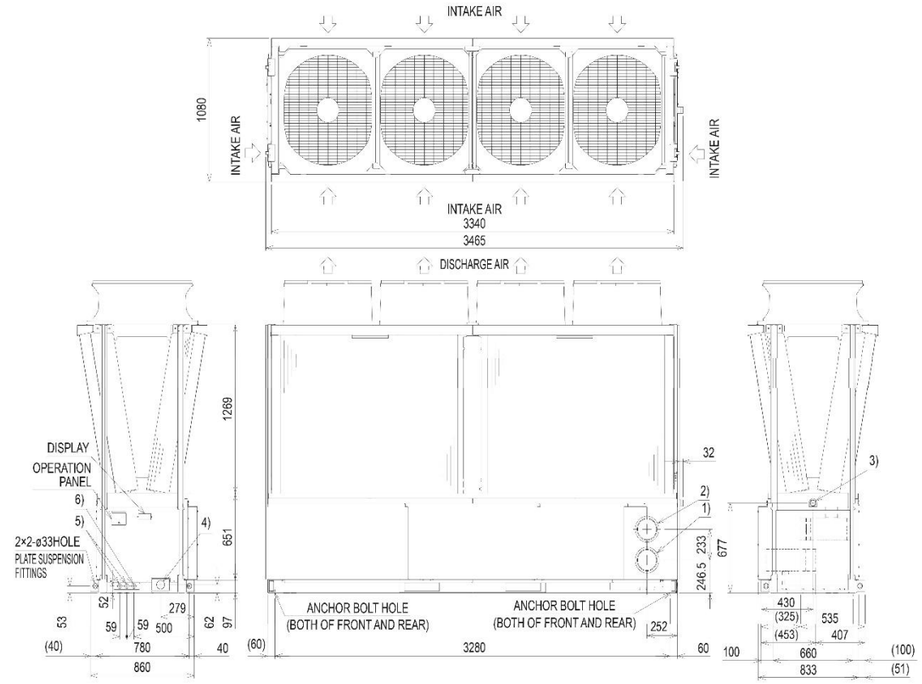
EAHV Models Only

Technical Selection Page 5 / 7

EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Dimensions



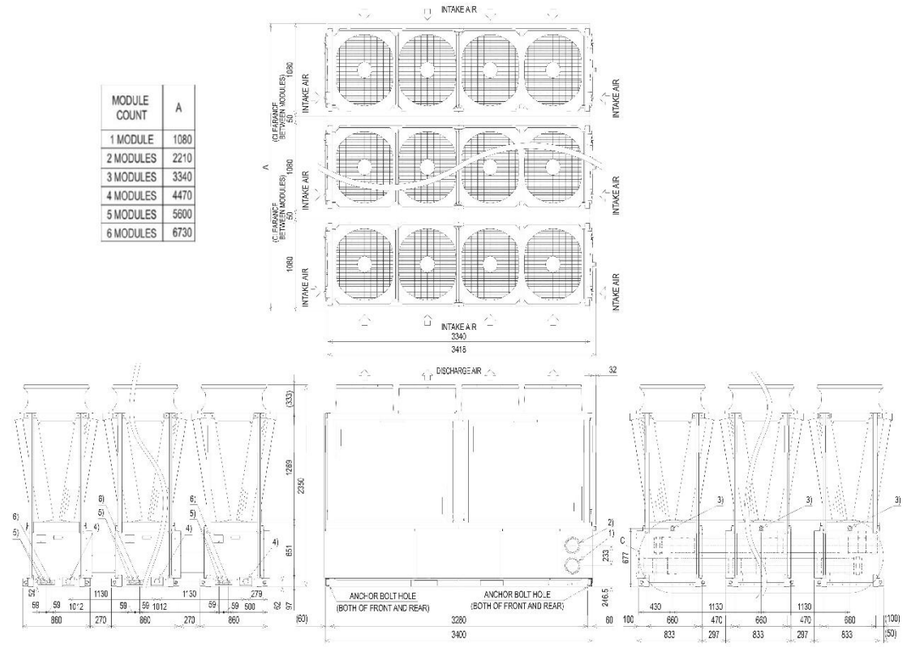
Technical Selection Page 6 / 7

EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Dimensions

MODULE COUNT	A
1 MODULE	1080
2 MODULES	2210
3 MODULES	3340
4 MODULES	4470
5 MODULES	5600
6 MODULES	6730



Technical Selection Page 7 / 7

EAHV-M1800YCL(-N)

Air Source Reversible Heat Pump / Chiller

Import to Read

IMPORTANT: Please read and observe our "Safety precaution" warnings and cautions and any warnings included within the Technical guidance set out in the relevant equipment data book before you carry out any function on the product. This output is based upon the best available information but is given as indicative guidance only and should not be considered as final system design. We recommend that the information in this Technical Proposal Form is read in conjunction with the latest equipment data book and installation manual at all times. All water systems should be designed, installed and commissioned in accordance with industry good practice guidelines; such as, but not limited to: BSRIA Guide BG2/2010 – Water System Commissioning, BSRIA Guide BG29/2012 – Pre-Commissioning of Pipework Systems, BSRIA Guide BG50/2013 – Water Treatment for Closed Heating & Cooling Systems, CIBSE Commissioning Code W – Water distribution systems.

Mitsubishi Electric takes no design responsibility or liability for the system, components, equipment selections or control strategy – it is your responsibility to check the suitability of the proposed equipment selections. In order to comply with the Mitsubishi Electric warranty requirements all Mitsubishi Electric products must have adequate planned preventative maintenance undertaken in accordance with our recommendations. To meet Mitsubishi Electric's warranty requirements a suitable method of filtration must be provided within the system – please refer to installation manual available from the document library. The recommended water flow rates must be maintained at all times when the equipment is operating. Particular attention should be paid to any change in pressure drop due to glycol and start up temperatures. Operating the equipment with less than the minimum flow rate will invalidate the warranty.

The freezing temperatures, capacity de-rates and pressure drop based on glycol concentration will vary between manufacturers. We also remind you of our quotation texts:

This quotation is given by Mitsubishi Electric in good faith based upon information provided by you or your company. We have not undertaken a site survey to support this quotation. Whilst we endeavour to factor into our quotation any special site conditions or user requirements which you may have expressly identified to us previously in writing, this quotation is not a project system design and is not a confirmation of project volumetric or yield analysis. We recommend that you assess final product selection and make the final system design based upon your own volumetric or yield analysis and project knowledge, including any project requirements which might impact on that selection. Please check carefully any requirement for a Mitsubishi Electric product to integrate with any third party equipment. We are not responsible for integration capability of our products with any third party equipment unless we have expressly confirmed that this integration is approved in the current Mitsubishi Electric product specification or in a current technical bulletin.



Q-TON, DHW AND HEATING FROM FREE NATURAL ENERGY

Q-ton systems are the only ones on the market that use R744 gas and that can work on low temperature thermal systems having a seasonal energy efficiency class of A +. These systems, being ECO friendly, are attentive to the possible risks associated with the emission of climate-altering gases into the atmosphere and, to avoid possible gas leaks, are equipped with leakage control sensors.

R744
R744 (CO2) REFRIGERANT GAS

90°C
DOMESTIC HOT WATER PRODUCTION UP TO 90° C

52°C
HOT WATER FOR HEATING UP TO 52° C

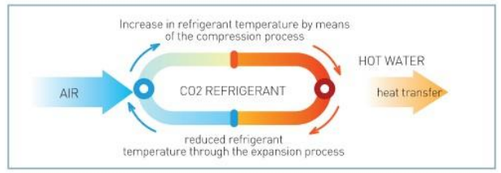


HEAT PUMP KEYMARK
Certificate of Approval for the Heat Pump KEYMARK Scheme

Q-TON CO2 HEAT PUMP

GSR dual stage compressor

Thanks to the action of its dual stage compressor, Q-ton makes it possible to produce a high amount of energy for heating or for domestic hot water production. The nominal thermal power generated is stable and constant even when outside temperatures lower.





LCD touch panel

The management and main parameters of the system can be controlled both from the LCD wire control and remotely via MODBUS protocols.
The system independently selects the operating priority of the system (heating or domestic hot water) by means of the wire control.

The flow temperatures of the circuit can be set either as fixed way or by selecting the climate curve.

EASY TO USE
LCD panel with lit buttons.
Wide 2.8-inch display.
Backlighting.

PEAK-CUT TIMER
Possibility of setting a DHW production schedule based on peak demand.

DAYLIGHT SAVINGS TIME UPDATE
The system automatically adapts to standard time for easy programming.

PROGRAMMING
Daily, weekly and annual programming can be set.

THE TANK
The tank can always be manually filled.

CLIMATIC CURVE
In heating mode, you can set a customisable climate curve that automatically defines the flow temperature according to the outside temperature conditions.

RC-Q1EH2 FOR Q-TON



Domestic hot water

Q-TON, DHW PRODUCTION MODE OPERATION

The Q-ton heat pump absorbs "free" heat from the outside air and amplifies it to quickly and efficiently generate hot water, up to 90° C without any need for an additional heating element.

Q-ton reduces operating costs and carbon emissions by 40 to 75% compared to conventional systems. It is suitable for installation in new buildings and does not require a backup heating system. In existing buildings with conventional heating systems, it is applicable with the domestic hot water production function only.

DOMESTIC HOT WATER

Q-ton installation is ideal for replacing old heating systems such as boilers because it produces DHW according to the actual capacity required by the user.

PERFORMANCE

Operational up to -25° C outside

With DHW production up to 90° C

OUTPUT

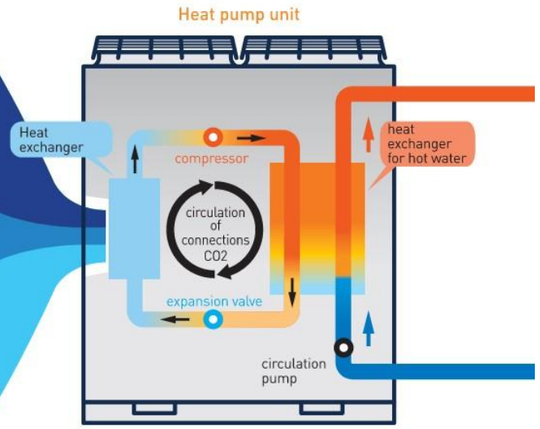
100% up to -7° C

Nominal output kept at 100% up to -7° C

EFFICIENCY

COP 4.3

The highest value on the market



90°C

Achievable temperature

16

Connectable outdoor units

480

Maximum modular power in kW

HOW IT WORKS

Q-ton uses a cold refrigerant coil that absorbs heat from outside air and compresses the refrigerant with the exclusive 2-stage compressor to increase its temperature. The heat exchanger then uses the heat generated to produce domestic hot water.

POWER AND DESIGN FLEXIBILITY

Up to 16 outdoor units can be controlled via a single control.

The maximum power that can be achieved by a combined system is 480 kW.

These outputs make Q-ton suitable for installation in large new apartment buildings or in very large apartment buildings with existing district heating systems.

SENSORS IN THE TANKS

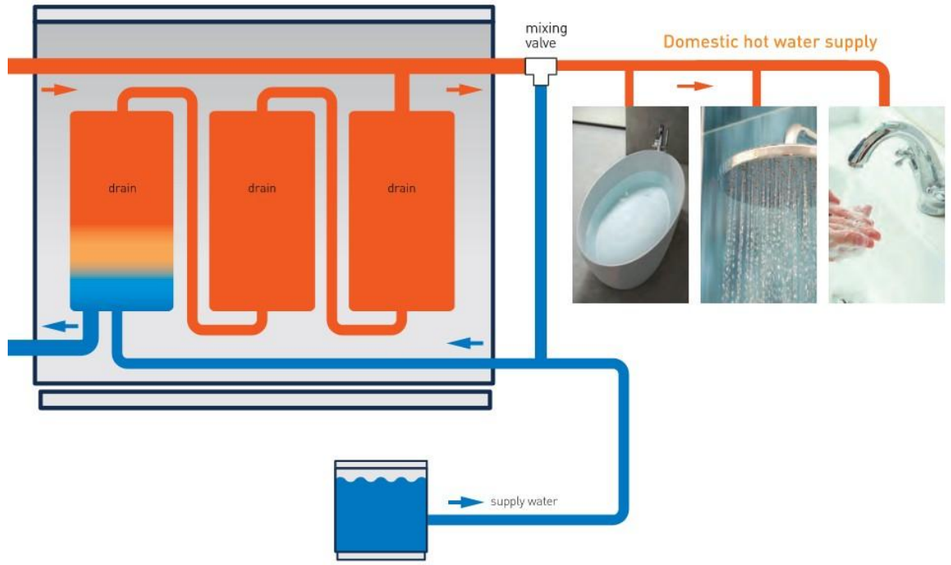
Each storage tank has five compartments into which temperature sensors can be inserted to detect the volume (in %) of hot water contained in the tank at a given time.

PROGRAMMING

The control system is programmed to maintain specific volumes of hot water at different times of the day, according to user needs.

LOWER COSTS

Further savings for users thanks to the possibility of heating and storing water at times when electricity rates are lower.



Heating

Q-TON, HEATING MODE OPERATION

The application of Q-ton for heating offers efficiency, low consumption and respect for the environment.

The use of CO2 as a refrigerant makes the heat pump much more environmentally friendly than conventional systems.

HEATING

Possibility of heating rooms at low temperature with return temperatures below 30° C.

Q-ton allows combined use with radiant flooring systems and high efficiency radiators.

POWER AND DESIGN FLEXIBILITY

Up to 16 outdoor units can be controlled via a single control.

The maximum power that can be achieved by a combined system is 480 kW.

These outputs make Q-ton suitable for installation in large new apartment buildings or in very large apartment buildings with existing district heating systems.

PERFORMANCE

Operational up to -25° C outside

OUTPUT

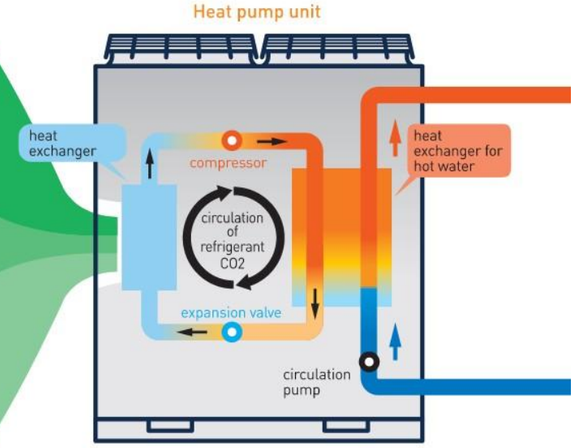
100% up to -7° C

Nominal output kept at 100% up to -7° C

EFFICIENCY

146%

In average climatic conditions

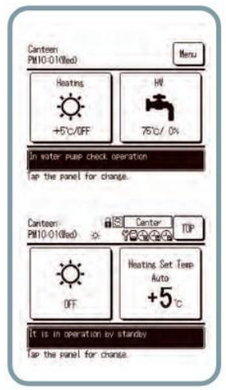


480
Maximum modular power in kW

52°C
Achievable temperature

For radiant flooring

For high efficiency hydronic terminals

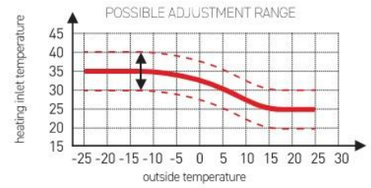


OPERATING MODES

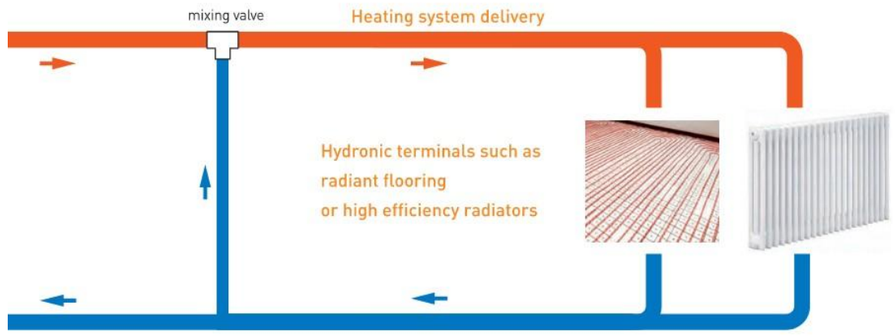
MHI has improved the touch screen control, updating the heating and domestic hot water settings

Two types of control can be set when using the system in heating mode.

1. AUTO SETTING: the hydronic system delivery temperature is automatically set according to a climate curve. This curve can be shifted lower or higher within a range of 5° C.



2. MANUAL SETTING: The inlet temperature can be set manually between 20° C and 52° C.



Heating and domestic hot water

Q-TON, IN COMBINED MODE OPERATION

Q-ton is a high performance, flexible, environmentally-friendly system that is able to meet the many demands of the market.

Thanks to optimal energy management, maximum performance efficiency is ensured, even at low outside temperatures.

HEATING AND DOMESTIC HOT WATER

Q-ton is a heat pump that can meets low temperature heating and DHW production demands.

The priority of use (heating or DHW) can also be selected.

PERFORMANCE

Operational up to -25° C outside

OUTPUT

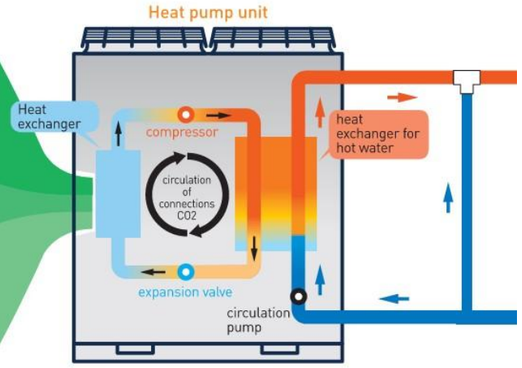
100% up to -7° C

Nominal output kept at 100% up to -7° C

FLEXIBILITY

Heating + DHW

A single system that meets all your needs

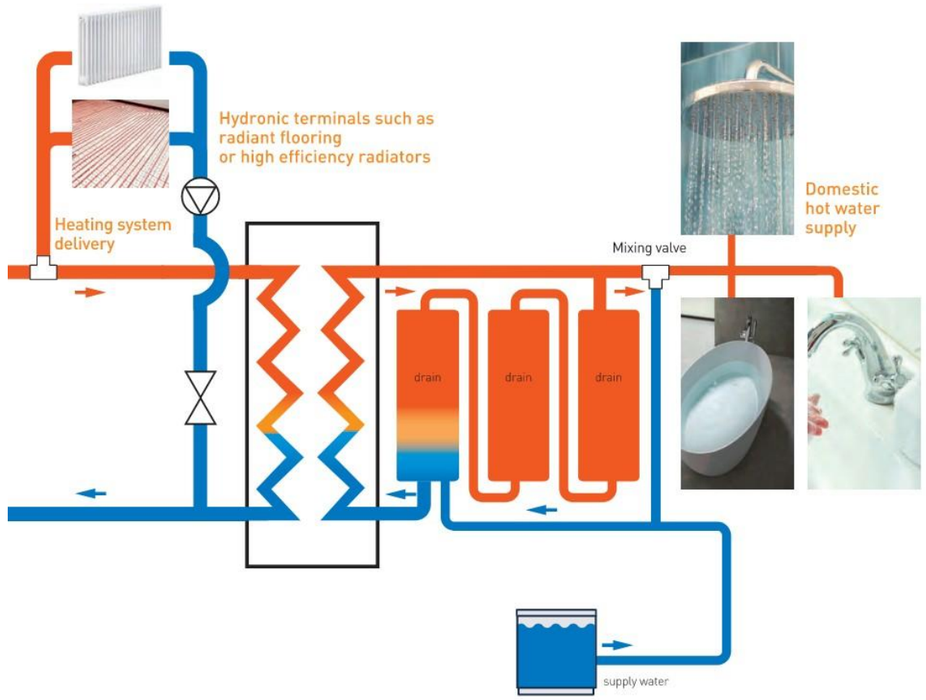




CONTROL INSTALLATION

To make system installation flexible, an external PLC control must be installed to manage the operating and signal information coming from Q-ton, which will be transferred to the main system components (control valve, Inverter pump, mixing valve).

The operating parameters and information on real time system operation can also be managed remotely via MODBUS protocols.



Heating and domestic hot water

CONFIGURATIONS

Q-TON
DHW AND HEATING

16 units controlled by a single command

Up to 480 kW of capacity, connecting 16 units, each of them 30 kW.
The extremely flexible modular configuration makes Q-ton installation possible for heating and DHW production, adapting the power of the system to different applications. A single control device can be used to manage the entire system if all units are set to the same operating mode.

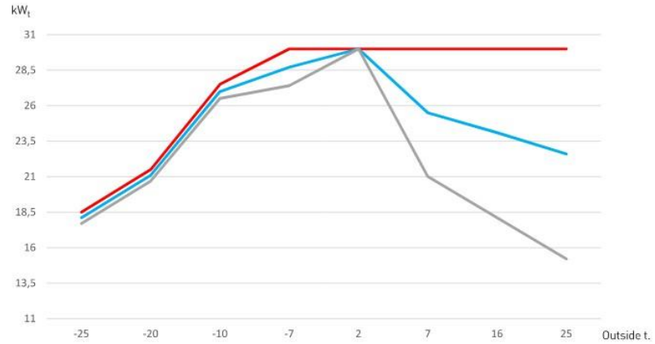


Depending on the application and installation needs, a module of 30 kW can produce 17,000 liters of DHW per day.

Model				ESA30EH2-25
Heating	Output power (radiant flooring)	A7/W35[1]	kW	30
	Electrical absorption			8.4
	Performance coefficient		COP	3.57
Domestic Water	Output power (DHW production)	A16/W65[2]	kW	30
	Electrical absorption			7.0
	Performance coefficient		COP	4.30
Seasonal heating data	Theoretical load (Pdesignh) @-10°C	W35	kW	27
	Seasonal energy efficiency (ns)		%	146
	Energy efficiency class		-	A+
	Annual energy consumption		kWh/a	14822
Seasonal domestic water data	Test cycle profile			XXL
	Energy efficiency (ndhw)		%	114
	Energy efficiency class			A
	Annual energy consumption		kWh/a	1909
Operating limits	Outside air temperature	Heating	°C	-25~25
		DHW		-25~43
	Delivery water temperature	Heating	°C	25~45
		DHW		60~90
Refrigerant circuit data	Refrigerant		type (GWP)	R744 (1)
	Quantity (tons CO2)		kg (t)	8.5 (0.00)
	Compressor		type	Dual Stage - DC Inverter
Hydraulic data	Heat exchanger		type	Tube bundle
	Circulation pump	Prevalence	m (kPa)	5 m (49 kPa) @ 17litres/min
	Water connections	Dimensions	inches	3/4" (DN20)
	Operating pressure	Min/Max	bar	1/5
Electrical data	Power supply		Ph-V-Hz	3Ph-380~415V-50Hz
	Maximum current		A	21
	Power cable (recommended)		type	5x6 mm²
Product specifications	Fan	Air flow	m³/h	15600
		Prevalence	Pa	50
	Sound power level		dB(A)	77
	Dimensions	LxDxH	mm	1350x720x1690
	Weight	Net	kg	375
Controls	Wire remote control	Not included		RC-Q1EH2
	Climatic curve			Available
	Modbus	Optional		RCI-MDQE2

Notes: The data contained above refer to the following standards: EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014. 1. Water conditions: inlet 20° C, outlet 35° C. 2. Water conditions: inlet 17° C, outlet 65° C.

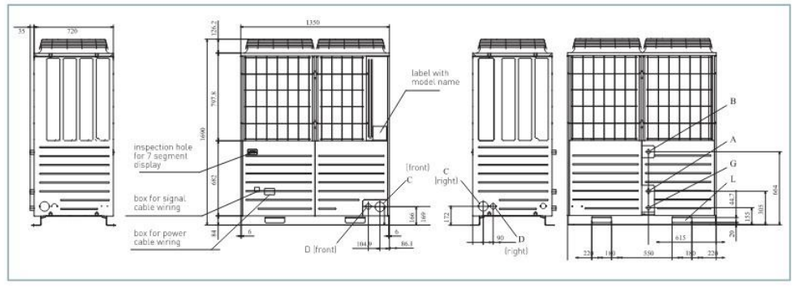
Output curves in heating at 35° C



The data contained take into account the defrost cycles.

Water conditions: inlet 20° C, outlet 35° C.
Water conditions: inlet 25° C, outlet 35° C.
Water conditions: inlet 30° C, outlet 35° C.

ESA30EH2-25 diagrams and measurements



Item	Description	
A	Water inlet port	RC 3/4 (20A copper pipe)
B	Hot water outlet port	RC 3/4 (20A copper pipe)
C	Output lines for connection between the heat pump and the tank	Ø 88 (or Ø 100)
D	Power cable inlet	Ø 50 (right, front) bottom hole 40x80
G	Drain water piping output	RC 3/4 (20A copper pipe)
L	Opening for movement	180x44.7