

Pentavia, Mill Hill

London NW7 2ET Energy Statement Date: 22/03/19

Revision	Issued for	Date	Author	Checked by
0	Planning	22/03/2019	AC / JC / KC / PP	СС

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Contents

1	Executive Summary	1
2	Introduction	3
2.1	Software and Modelling Information	3
2.2	Development Description	3
3	Sustainability Drivers	4
4	Establishing CO_2 Emissions	7
5	Demand Reduction (Be Lean)	8
5.1	Passive Design Measures	8
5.2	Active Design Measures	8
5.3	Demand Side Response	8
5.4	'Be Lean' Results	9
5.5	Energy Demand	9
5.6	Cooling Hierarchy	9
5.7	Overheating Risk Analysis	9
5.8	Part L Criterion 3 of the Building Regulations	9
5.9	Domestic Overheating Checklist	10
5.10	Domestic and Non-domestic Overheating Modelling Assumptions	11
5.11	Domestic Overheating Results for DSY1	11
5.12	Non-domestic Overheating Results for DSY1	12
5.13	Active Cooling	12
6	Heating Infrastructure (Be Clean)	13
6.1	Area-Wide Heat Network	13
6.2	Site-Wide Heat Network	13
6.3	'Be Clean' Results	13
6.4	Air Quality	13
6.5	Future Proofing	14
7	Renewable Energy (Be Green)	15
7.1	Low and Zero Carbon Technologies Study	15
7.2	'Be Green' Results	15
8	Carbon Offsetting	16
8.1	Offset Payment	16
9	Monitoring	16
10	Conclusion	16
11	Appendices	17
11.1	BRUKLs	17
11.2	SAP Compliance Calculations	28
11.3	Overheating Results	30
11.4	Area-weighted Average Actual and Notional Cooling Demands for Non-domestic Buildings	38
11.5	Communication with Local Borough and/or Local Heat Network Operators	45
11.6	Energy Centre	47
11.7	Preliminary Demand Profiles & CHP Assessment	48
11.8	Unviable Low and Zero Carbon technologies	52
11.9	GLA Carbon Emissions Reporting Spreadsheet (v1.1)	53

1 **Executive Summarv**

This Energy Statement has been prepared by chapmanbdsp to support the planning application for the Pentavia, Mill Hill development in Barnet.

The energy strategy for this mixed-use development focuses on providing high quality dwellings and nondomestic spaces that are comfortable throughout the year, but with minimal energy consumption and carbon emissions. The design approach for Pentavia, Mill Hill follows the GLA energy hierarchy i.e. being 'lean, clean and green' to achieve the following targets:

- Reduce regulated CO₂ emissions below those of a development compliant with Part L 2013 of the Building Regulations through energy efficiency measures alone (be lean);
- An on-site reduction of 35% beyond Part L 2013 for non-residential development; and, ٠
- Zero carbon target for residential developments, with at least a 35% on-site reduction beyond Part L 2013 and proposals for making up the shortfall to achieve zero carbon, where required.

As Pentavia, Mill Hill is comprised of both domestic and non-domestic uses, this report demonstrates that this target has been achieved for domestic and non-domestic uses separately. These targets are in line with the GLA's Sustainable Design and Construction SPG, Barnet's SPD on Sustainable Design and Construction, Barnet's Development Plan Document as well as the London Plan (March 2016) and the London Borough of Barnet Core Strategy.

The design approach targets demand reduction measures first, giving priority to optimization of building fabric to reduce the need for heating, cooling, and artificial lighting. The objective was to have buildings as energy efficient (i.e. 'lean') as possible without relying on overly complicated systems or technologies to deliver low carbon performance. The aim was to achieve a low-energy building without relying on carbon offsetting technologies only.

The design of the buildings, together with the MEP systems, and sustainability features have been optimized to minimize the energy demand. High level of envelope insulation and optimized glazing-to-solid ratios are applied to the facade design to ensure heating demand is minimized and in response to the site's surroundings; whilst window and door openings are provided for passive ventilation to reduce the need for cooling, wherever possible without compromising air quality. Efficient low energy lighting (with LED lighting where appropriate) and mechanical ventilation with high rate of heat recovery are implemented throughout to further reduce energy demand. Demand side response is also facilitated via smart meters and other technologies for control and diagnostics where applicable. These components also support the operational energy monitoring requirements.

In the absence of existing district energy networks in close proximity to the site, the energy centre also allows for a connection to a future district heating scheme by providing a space for the necessary equipment in the communal plantroom and a single capped off pipework connection point, should one become available.

The development will include a low carbon communal heating network serving all domestic and non-domestic areas. A single energy centre will include communal gas-fired CHP and gas fired boilers for space heating and domestic hot water. A PV array located on unshaded roofs will further reduce the scheme's electricity demand.

This strategy provides the following advantages:

- Future connection to area wide district heating scheme for energy sharing and network expansion; and •
- Future installation of advanced technology heat generators towards achieving zero carbon.

With this design approach, the development achieves a 41.8% reduction in carbon emission against Part L 2013. Under the revised GLA guidance, we have also calculated the carbon emissions using SAP 10 carbon factors. These results are presented in section 11.9.

Domestic energy hierarchy

	Carbon dioxide emissions (Tonnes CO2 per annum)				
	Regulated Unregulated Total				
Part L 2013 compliant building	1014.4	1121.9	2136.3		
Be Lean	978.1	1121.9	2100.0		
Be Clean	615.2	1121.9	1737.1		
Be Green	531.3	1121.9	1653.2		

Table 1.1 - CO₂ emissions after each stage of the energy hierarchy for domestic buildings

		Carbon dioxide savings			
		(Tonnes CO ₂ per annum)		%	
		Regulated	Total	Regulated	Total
Be Lean	Savings from demand reduction	36.3	36.3	3.6%	1.7%
Be Clean	Savings from CHP	362.9	362.9	35.8%	17.0%
Be Green	Savings from renewable energy	83.9	83.9	8.3%	3.9%
Total cumulative savings		483.1	483.1	47.6%	22.6%

Carbon shortfall	531.3
Cash-in-lieu contribution	£956,319

Table 1.2 - Regulated CO_2 savings from each stage of the energy hierarchy for domestic buildings



Figure 1.1 - Regulated CO₂ emissions after each stage of the energy hierarchy for domestic buildings

Non-domestic energy hierarchy

	Carbon dioxide emissions				
	(Tonnes CO ₂ per annum)				
	Regulated Unregulated Tota				
Part L 2013 compliant building	301.1	122.1	423.2		
Be Lean	260.5	122.1	382.6		
Be Clean	234.2	122.1	356.3		
Be Green	234.2	122.1	356.3		

Table 1.3 - CO₂ emissions after each stage of the energy hierarchy for non-domestic buildings

		Carbon dioxide savings			
		(Tonnes CO	2 per annum)	%	
		Regulated	Total	Regulated	Total
Be Lean	Savings from demand reduction	40.6	40.6	13.5%	9.6%
Be Clean	Savings from CHP	26.3	26.3	8.7%	6.2%
Be Green	Savings from renewable energy	0.0	0.0	0.0%	0.0%
Total cumulative savings		66.9	66.9	22.2%	15.8%

Carbon shortfall	38.5
Cash-in-lieu contribution	£69,330

Table 1.4 - Regulated CO₂ savings from each stage of the energy hierarchy for non-domestic buildings



Figure 1.2 - Regulated CO₂ missions after each stage of the energy hierarchy for non-domestic buildings

Site-wide energy hierarchy

	Carbon dioxide emissions			
	(Tonnes CO ₂ per annum)			
	Regulated Unregulated Total			
Part L 2013 compliant building	1315.5	1244.0	2559.5	
Be Lean	1238.6	1244.0	2482.6	
Be Clean	849.4	1244.0	2093.4	
Be Green	765.5	1244.0	2009.5	

Table 1.5 - CO₂ emissions after each stage of the energy hierarchy for the whole site

		Carbon dioxide savings			
		(Tonnes CO ₂ per annum)		%	
		Regulated	Total	Regulated	Total
Be Lean	Savings from demand reduction	76.9	76.9	5.8%	3.0%
Be Clean	Savings from CHP	389.2	389.2	29.6%	15.2%
Be Green	Savings from renewable energy	83.9	83.9	6.4%	3.3%
Total cumulative savings		550.0	550.0	41.8%	21.5%

Carbon shortfall	569.8
Cash-in-lieu contribution	£1,025,649

Table 1.6 - Regulated CO₂ savings from each stage of the energy hierarchy for the whole site



Figure 1.3 - Regulated CO₂ emissions after each stage of the energy hierarchy for the whole site

2 Introduction

This Energy Statement has been prepared by chapmanbdsp to support the detailed planning application for the Pentavia, Mill Hill development.

In line with the London Borough of Barnet Core Strategy, Pentavia, Mill Hill has adopted BREEAM New Construction 2018 Assessment tool and the London Borough of Barnet SPD - Sustainable Design and Construction as the framework to benchmark its wider sustainability performance. The project particularly focuses on carbon emissions reduction in line with the latest London Plan guidance and GLA's Energy Hierarchy with its "Lean-Clean-Green" approach.

Energy demand has been minimized by implementing passive envelope design strategies, including reduced glazing surface area that is optimized for the orientation of the individual facades; external solar shading provided by the balconies; highly insulated windows and walls combined with high level of air-tightness. This ensures that the whole-house ventilation with minimum fresh air and with high heat recovery rate can meet most of the dwellings' energy needs without the need for active cooling for summer comfort.

Low-carbon energy delivery systems have been chosen to further reduce energy demand. The dwellings are designed to provide effective natural ventilation for pollutants purge and passive cooling in summer, however comfort cooling will be provided to some uses of the non-domestic assets.

The adopted servicing strategy includes communal heating energy supply for space heating and domestic hot water from a gas-fired cogeneration scheme with back-up natural gas fired boilers. The current centralised water-based servicing strategy also allows for future connection to district heating scheme should one become available via heat exchanger and a single capped off pipe connection point. Cooling energy supply is from highly efficient air-cooled chillers in the basement to serve the requirements of the non-domestic assets. A PV array located in the unshaded roof is proposed to reduce the scheme's electrical consumption. Sub-metering will be provided for all major energy loads for each commercial unit.

2.1 Software and Modelling Information

The development has been modelled using an approved software package. Stroma FSAP 2012 was used to perform the analysis for the domestic assets and SBEM calculations for the non-domestic assets were carried out using EDSL Tas v9.4 and the UK Building Regulations 2013 Studio.

The calculations presented in this report are based on the carbon factors currently in use for Part L compliance. In addition to this report, we have included in the submission the GLA Carbon Emissions Reporting Spreadsheet v1.1 which has the revised tables for the updated SAP 10 carbon factors. This can be found in section 11.9.

2.2 Development Description

The Pentavia, Mill Hill site is located in the former Pentavia Retail Park which lies in the Mill Hill ward to the north of the London Borough of Barnet.

The proposal consists of redevelopment of site including the demolition of all existing buildings and construction of 844 new Build to Rent Class C3 residential units and 894 m² ancillary Class C3 Build to Rent facilities; 405 m² Class A1 Retail; 326 m² Class A3 and A4 food; and 297 m² Class D1 Community; new pedestrian access off Bunns Lane; open space, landscaping; car parking; and highway/pedestrian improvements.

The inclusion of a mixture of commercial spaces aims to make a better use of the existing Pentavia Retail Park, bringing benefits not only for the residents but also to the wider community.

The site is bounded to the southwest by the M1, to the east by Watford Way and to the north by Bunns Lane. Existing buildings on the site include the Pentavia Retail Park (Use Class A1) and a Together Plan (a charity occupying the former homebase unit).



Figure 2.1 - Location plan of the Pentavia, Mill Hill site

The 18 residential blocks will provide dwellings arranged around a communal space, protected visually and acoustically from the motorways that surround the site. The development will also provide D1 use, a fitness centre, security office, storage, dry cleaners, a coffee shop, a hair dresser, a work share hub, lower-ground level car park, a supermarket and a café.

3 Sustainability Drivers

This report identifies policies relevant for energy and carbon emissions elements of the London Plan, in particular, section 5 of the London Plan.

The Mayor's London Plan provides guidelines and targets to the 32 London boroughs and the Corporation of the City of London for the spatial development of London.

The London Plan was first published in 2004 with the current version released in March 2016, including revised energy performance targets in line with the 'zero carbon' target for residential development. Although the latest London Plan defines its targets against the 2010 Building Regulations, this Energy Statement reports the results for Pentavia Mill Hill against the 2013 Building Regulations, as defined in the Greater London Authority's (GLA) latest Energy Planning Guidance (March 2016); and also to ensure that the latest version of software (SAPs 2012 and SBEM 2013) is being used to provide as accurate results as possible.

Other key policies that are applicable to the scheme have been identified and are described in this section.



Figure 3.1 - Energy hierarchy

London Plan policies

This Spatial Development Strategy for Greater London includes objectives to reduce the capital's impact on, and exposure to, the effect of climate change. The most relevant policies for this Sustainability Statement are:

Policy 5.2 Minimising carbon dioxide emissions

The original London plan highlighted the need for the energy hierarchy to be in accordance with:

- Be Lean, use less energy
- Be clean, supply energy efficiently
- Be green: use renewable energy

The current London plan continues to pursue the requirement of this hierarchy and sets targets under policy 5.2 to target improvements over 2010 Building Regulations as follows:

Residential Developments:

- 2013-2016: 40 per cent
- 2016-2031: Zero carbon

Non-Residential developments:

- 2013-2016: 40 per cent
- 2016-2019: As per Building Regulations requirements
- 2019-2031: Zero carbon

As this Energy Statement is being assessed against the current 2013 Building Regulations, it is important to note that 40% over Building Regulations 2010 is equivalent to 35% over Building Regulations 2013.

Policy 5.3 Sustainable design and construction

The requirement for sustainable design and construction is split as follows:

At a strategic level it requires the highest standards of sustainable design and construction to be achieved to improve the environmental performance of new developments and to adapt to the effects of climate change over the buildings lifetime.

To demonstrate this, development proposals are required to demonstrate that sustainable design standards are integral to the building design, including its construction and operation, and ensure that sustainable measures are considered at the beginning of the design process in order for them to be fully integrated with the building and maximise every opportunity to meet the requirements.

Typical sustainability measures that should be considered are as follows:

- Minimising carbon dioxide emissions across the site, including the building and services (such as heating and cooling systems).
- Avoiding internal overheating and contributing to the urban heat island effect. •
- Efficient use of natural resources (including water), including making the most of natural systems both within and around buildings.
- Minimising pollution (including noise, air and urban run-off). •
- Minimising the generation of waste and maximising reuse or recycling.
- Avoiding impacts from natural hazards (including flooding).

Policy 5.6 Decentralised energy in development proposals

"Development proposals should evaluate the feasibility of Combined Heat and Power (CHP) systems, and where a new CHP system is appropriate also examine opportunities to extend the system beyond the site boundary to adjacent sites"

Policy 5.7 Renewable energy

The strategy of the London plan for application of renewable technology is to make use of the technology with a view to achieving the installed renewable energy capacity outlined in the 'Climate Change Mitigation and Energy Strategy'. The London plan does not however set mandatory targets, rather requiring the application to be implemented wherever feasible and with minimal impact on biodiversity and the natural environment.

Policy 5.9 Overheating and cooling

This policy is to address the impact of the urban heat island effect in London and encourages design to avoid overheating and excessive heat generation as well as reduce the effects of climate change on the urban heat island effect.

The policy defines a hierarchy for tackling the need for cooling in buildings as follows:

- 1. Minimise internal heat generation through energy efficient design
- 2. Reduce the amount of heat entering a building in summer through orientation, shading, albedo, fenestration, insulation and green roofs and walls
- 3. Manage the heat within the building through exposed internal thermal mass and high ceilings
- 4. Passive ventilation
- 5. Mechanical ventilation
- 6. Active cooling system

Barnet Council Policies

Barnet's Local Plan - Core Strategy - Development Plan Document (2012)

Barnet's Local Plan embodies spatial planning - the practice of 'place shaping' to deliver positive social, economic and environmental outcomes and provide the overarching local policy framework for delivering sustainable development in Barnet.

Policy CS13

Ensuring the efficient use of natural resources - The London Borough of Barnet will:

- Promote the highest environmental standards for development and through our SPD, on Sustainable • Design and Construction and Green Infrastructure we will continue working to deliver exemplary levels of sustainability throughout Barnet in order to mitigate and adapt to the effects of a changing climate;
- Expect all development to be energy efficient and seek to minimise any wasted heat or power;
- In line with London Plan Policy 5.2 Minimising carbon dioxide emissions, expect major development in • accordance with the Mayor's energy hierarchy to reduce carbon dioxide emissions beyond the 2010 Building Regulations.
- Maximise opportunities for implementing new district-wide networks supplied by decentralised energy • (including renewable generation) in partnership with key stakeholders in areas of major mixed use growth including town centres. Where feasible we will expect all development to contribute to new and existing frameworks:
- Make Barnet a water efficient borough and minimise the potential for fluvial and surface flooding by ensuring development does not cause harm to the water environment, water guality and drainage systems. Development should utilise Sustainable Urban Drainage Systems (SUDS) in order to reduce surface water run-off and ensure such run-off is managed as close to its source as possible subject to local geology and ground water levels;
- We will improve air and noise quality by requiring Air Quality Assessments and Noise Impact Assessments from development in line with Barnet's SPD on Sustainable Design and Construction.

Barnet – Development Management Plan (2012)

Barnet Development Management Plan forms part of Barnet's Local Plan and sets out the policy framework for decision making on planning applications.

Policy DM02

Development standards - Where appropriate, development will be expected to demonstrate compliance with the following national and London wide standards supported by the guidance set out in the Council's suite of Supplementary Planning Documents:

- BREEAM, the environmental assessment method for non-residential development;
- By Design, the CABE urban design principles; ٠
- Lifetime Homes, the 16 design criteria required by the London Plan Policy 3.8; ٠
- Wheelchair accessibility, the London Plan Policy 3.8; ٠
- Minimum floor space, the London Plan Policy 3.5; •
- Outdoor amenity space, the Sustainable Design and Construction SPD;
- Secured by Design, the National Police Initiative; and •
- Play space, the London Plan Policy 3.6.

Barnet - Supplementary Planning Document - Sustainable Design and Construction (2016)

The London Borough of Barnet SPD on Sustainable Design and Construction sets out Barnet's technical requirements for environmental design and construction management. The SPD sets out requirements on air, noise, water, energy, water, waste and habitat quality in order to achieve protection and enhancement of the environment. The SPD requirements are linked to existing national standards and guidance.

The London Borough of Barnet SPD on Sustainable Design and Construction sets out Barnet's technical requirements for environmental design and construction management. The SPD sets out requirements on air, noise, water, energy, water, waste and habitat quality in order to achieve protection and enhancement of the environment.

The SPD requirements are linked to existing national standards and guidance:

- Minimum residential space standards;
- Internal layout and design;
- Outdoor amenity space;
- Daylight, privacy (minimum distance), outlook and light pollution;
- Microclimate wind and thermal conditions;
- Accessible and adaptable dwellings;
- Wheelchair user dwellings;
- Energy use in new buildings;
- Decentralised energy;
- Retrofitting of existing buildings;
- Water efficiency;
- Waste strategy;
- Air quality;
- Noise quality;
- Flood risk, sustainable urban drainage systems and water quality;
- Biodiversity and habitat quality;
- Archaeological investigation;
- Pollution prevention, contaminated land remediation and construction management;
- BREEAM; and
- Considerate Constructors Scheme.

6

4 Establishing CO₂ Emissions

This section presents the baseline CO_2 emissions (TER - Target Emissions Rate) i.e. carbon emissions of the building regulations Part L compliant development. Regulated and unregulated CO_2 emissions were calculated using SAP 2012 for the domestic assets and SBEM for the non-domestic.

844 apartments are proposed at Pentavia, Mill Hill. 57 dwelling types were individually modelled using SAP 2012 and these were then extended to include for the dwellings with exposed surfaces (floors to ground or non-domestic assets and roofs), allowing for an accurate average performance to be calculated in accordance with building regulations Part L guidance. All non-domestic uses were modelled in EDSL Tas and with all proposed uses appropriately zoned with NCM internal conditions.

Baseline carbon emissions for the domestic and non-domestic assets of the building are summarised in Table 4.1 and Table 4.2 on the right. The BRUKL documents for the non-domestic part and the residential SAP compliance information can be found in section 11.1 and 11.2 respectively.

Domestic

	Carbon dioxide emissions					
	(Tonnes CO ₂ per annum)					
	Regulated Unregulated Total					
Part L 2013 compliant building	1014.4	1121.9	2136.3			
Be Lean	-	-	-			
Be Clean	-	-	-			
Be Green	-	-	-			

Table 4.1 - Baseline CO₂ emissions for domestic buildings

Non-domestic

	C	arbon dioxide emissior	ssions	
	(Tonnes CO ₂ per annum)			
	Regulated	Unregulated	Total	
Part L 2013 compliant building	301.1	122.1	423.2	
Be Lean	-	-	-	
Be Clean	-	-	-	
Be Green	-	-	-	

Table 4.2 - Baseline CO₂ emissions for non-domestic buildings

5 **Demand Reduction (Be Lean)**

This section presents the reduction in CO₂ emissions achieved through the implementation of the energy demand reduction measures.

The design approach for Pentavia, Mill Hill has targeted demand reduction measures first, giving priority to the optimisation of the building fabric performance in order to reduce the need for heating, cooling and lighting. The objective was to maximise efficiency ('lean') as much as possible and avoid reliance on complex active/mechanical systems to deliver a low carbon performance. The focus was to achieve a low-energy building rather than just relying on carbon offsetting technologies. Studies were carried out at early design stages to inform the building envelope in terms of the envelope thermal performance with regards to airtightness and levels of insulation.

Passive Design Measures 5.1

Passive measures to reduce energy demand incorporated in the project include:

- High levels of insulation for exposed solid envelope elements; •
- Double glazing windows;
- Optimised glazing-to-wall ratio on the exposed facades based on solar gains for thermal comfort, daylighting for visual comfort and responding to surrounding issues, such as noise and air pollution;
- Improved airtightness;
- Maximised passive ventilation potential;
- External solar shading protecting glazed areas from unwanted solar gains. •

5.1.1 **Building Fabric**

The proposed and target fabric performance for the domestic and non-domestic areas of the development is presented in the table below.

	Domestic		Non-domestic	
	Part L1A - TER	Pentavia, Mill Hill proposed - DER	Part L2A - BER	Pentavia, Mill Hill proposed - TER
External wall U-value	0.18	0.13	0.26	0.18
Exposed wall U-value (corridor/staircase)	n/a	O.16	N/A	N/A
Exposed floor U-value	0.13	0.12	0.22	0.16
Exposed roof U-value	0.13	0.13	0.18	0.20
Windows U-value	1.40	1.40	1.60	1.40
Windows g-value	0.63	0.55	0.40	0.45
y-value	0.05	0.15 (default)	N/A	N/A
Air permeability rate	5	3	5 if area <250m ² 3 if area >250m ²	3

Table 5.1 - Fabric performance of domestic and non-domestic areas of the development

5.2 Active Design Measures

Following from the passive measures that dealt with fabric losses and gains balance, energy efficiency (active) measures are also in place at Pentavia, Mill Hill to further reduce energy demand. All dwellings will be provided with a high efficiency whole-house mechanical ventilation with minimum fresh air and very high heat recovery rate. Artificial lighting uses low-energy light fittings and efficient lighting controls that include presence/absence detection and daylight linked dimming where appropriate. Supplementary heating will be provided via radiators whilst cooling for the non-domestic assets will be supplied from the efficient air cooled chillers in the basement.

	D	omestic	Non-domestic	
	Part L1A - TER	Pentavia, Mill Hill proposed - DER	Part L2A - BER	Pentavia, Mill Hill proposed - TER
Ventilation system	Natural with Extract fans	Balanced with heat recovery	 Central ventilation sfp 0.3 Terminal unit sfp 0.3 Heat recovery efficiency 70% Variable speed control of fans and pumps Demand control via CO₂ sensors 	 AHU SFP1.4 Heat recovery efficiency 70% Variable speed control of fans and pumps Demand control via CO₂ sensors Toilets extract fan SFP 0.8
Cooling	none	none	SEER 4.5	SEER 5.0
Lighting luminaire (lm/circuit watt)	N/A	N/A	60	80
Occupancy control	N/A	N/A	Yes	Yes
Low energy lights %	100	100	100	100

Table 5.2 - Systems performance for the domestic and non-domestic areas of the development

Demand Side Response 5.3

Advancement and commercialisation of smart technologies presents additional opportunities to manage and save energy. However, the rate of smart technology development means that specified equipment could be meaningfully improved by the time of procurement. Therefore, some scope flexibility is relevant at design stage in order to take advantage of this.

In this context, the following features will be included/considered during detailed design:

- Power, data and media infrastructure to deliver buildings which are smart-enabled for future connectivity • by occupants.
- Smart utility meters provided for all residential units. Commercial units equipped with smart metering via base build or fit-out.
- Dwelling heat interface units enabled for connection via domestic smart control systems, such as Hive or • Nest, for remote control, interrogation and diagnostics.
- Similarly, dwelling MVHR units enabled for connection to proprietary domestic smart control systems.
- An intelligent building level management strategy, employing big-data analytics for connecting and optimising systems, including; heat network; power; lighting; ventilation; life safety; vertical transportation and security. Provides other advanced features like remote maintenance and diagnostics; predictive tools; identifying inefficiencies, trends and synergies.
- These components also support the operational energy monitoring requirements.
- Thermal storage is proposed, which will permit the CHP to run for longer periods, increasing economic and carbon benefits.

5.4 'Be Lean' Results

The estimated energy demand reductions for the domestic and non-domestic elements of the development are shown in Table 5.3 and Table 5.4 below.

Domestic

	Carbon dioxide emissions			
	(Tonnes CO ₂ per annum)			
	Regulated	Unregulated	Total	
Part L 2013 compliant building	1014.4	1121.9	2136.3	
Be Lean	978.1	1121.9	2100.0	
Be Clean	-	-	-	
Be Green	-	-	-	

Table 5.3 - Domestic CO_2 emissions after the lean stage of the energy hierarchy

Non-domestic

	Carbon dioxide emissions (Tonnes CO ₂ per annum)		
	Regulated	Unregulated	Total
Part L 2013 compliant building	301.1	122.1	423.2
Be Lean	260.5	122.1	382.6
Be Clean	-	-	-
Be Green	-	-	-

Table 5.4 – Non-domestic CO_2 emissions after the lean stage of the energy hierarchy

5.5 **Energy Demand**

The total energy demand (MWh/year) for the domestic and the non-domestic areas of the development are presented in the table below.

Energy demand following energy efficiency measures (MWh/year)							
Building use	Space heating	Hot water	Lighting	Auxiliary	Cooling	Unregulated electricity	Unregulated gas
Domestic	1313	1704	261	150	0	31.5	0
Non-domestic	96	58	352	25	254	234.3	0

Table 5.5 - Energy demand for the non-domestic areas of the development

Cooling Hierarchy 5.6

As part of the drive to reduce demand for energy highlighted by Mayor's Cooling Hierarchy set out in the London Plan, the design of Pentavia, Mill Hill has considered a number of passive and active measures that help reduce the need for cooling in the dwellings. The proposed approach is summarised in the table below.

Landan Dian Caalian Lievevalu	Depterie Mill I III
London Plan Cooling Hierarchy	Pentavia, Mill Hill
Minimise internal heat generation through energy	Low energy lighting specified throughout;
efficient design	High efficiency appliances;
	Balconies provide solar shading to the floors below;
	Solar control glazing where required;
	Well insulated hot water systems.
Reduce the amount of heat entering a building in	Building fabric has high levels of insulation;
summer through orientation, shading, albedo,	Good air-tightness (target air permeability of 3
fenestration, insulation and green roofs and walls	m ³ /hr/m ² at 50 Pa);
	External solar shading provided by protuberating
	balconies;
	High-albedo facade and paving materials.
Passive ventilation	Natural daytime and night time ventilation enabled via
	openable windows and balcony doors;
	High thermal mass of the concrete structure stabilises
	daytime internal temperature fluctuations.
Mechanical ventilation	Efficient whole-house ventilation with heat recovery
	and boost purge fans will ensure adequate ventilation
	and acoustic comfort.

Table 5.6 - Cooling hierarchy at Pentavia Mill Hill

Overheating Risk Analysis 5.7

The well insulated envelope combined with openable windows facing the communal areas (residential areas) provide the potential for very effective daytime and night time natural ventilation with high level of occupant air flow control. This is complemented by a combination of MVHR and boost purge fans. All systems within the dwellings will be compliant with Building Regulations Part F and CIBSE guidelines. Residential ventilation is provided beyond Building Regulations standards in order to provide adequate ventilation despite the sealed windows to the main roads with the average design air change rate being 4 ACH.

The massing of the building blocks contributes to provide self-shading and minimise direct solar radiation. The balconies facing the communal spaces also contributes to prevent overheating, thermal and visual discomfort, such as glare.

Detailed overheating analysis has been carried out using EDLS TAS for the residential and commercial areas and these are detailed in the following sections.

Part L Criterion 3 of the Building Regulations 5.8

All non-domestic areas comply with Criterion 3 of the ADL2A:2013 - results can be found in section 11.1.

5.9 Domestic Overheating Checklist

The following checklists assisted the design team to identify potential overheating risk in the residential areas early in the design process and demonstrates the inclusion of passive measures within the building envelope and services design to mitigate overheating and reduce cooling demand in line with the London Plan policy.

Section 1 - Site features	affecting vulnerability to overheating	Response
Site location	Urban – within central London or in a high-density conurbation	No
	Peri-urban – on the suburban fringes of London	Yes
Air quality and/or	Busy roads / A roads	Yes
Noise sensitivity – are any of the	Railways / Overground / DLR	Yes
following in the	Airport / Flight path	No
vicinity of buildings?	Industrial uses / waste facility	Yes
Proposed building use	Will any buildings be occupied by vulnerable people (e.g. elderly, disabled, young children)?	Possibly
	Are residents likely to be at home during the day (e.g. students)?	No
Dwelling aspect	Are there any single aspect units?	Yes
Glazing ratio	Is the glazing ratio (glazing: internal floor area) greater than 25%?	No, the overall glazing ratio is 15%
	If yes, is this to allow acceptable levels of daylighting?	N/A
Security - Are there any security issues that could limit opening of windows for ventilation?	Single storey ground floor units	Yes
	Vulnerable areas identified by the Police Architectural Liaison Officer	No
	Other	No

Table 5.7 - Section 1 of GLA's Domestic Overheating Checklist

Section 2 - Design fe	Response	
Landscaping	Will deciduous trees be provided for summer shading (to windows and pedestrian routes)?	Trees proposed at ground level - these may only provide shading to residential units located at lower levels and protect most pedestrian routes.
	Will green roofs be provided?	Yes, green roofs are proposed.
	Will other green or blue infrastructure be provided around buildings for evaporative cooling?	Yes, blue roofs are envisaged for the scheme.
Materials	Have high albedo (light colour) materials been specified?	The materials specified for the facade have relatively high albedo.
Dwelling aspect	% of total units that are single aspect	34%

Section 2 - Design fea	tures implemented to mitigate overheating risk	Response
	% single aspect with N / NE / NW orientation	72%
	% single aspect with E orientation	0%
	% single aspect with S / SE / SW orientation	28%
	% single aspect with W orientation	0%
Glazing ratio - What	N / NE / NW	15%
is the glazing ratio	E	15%
floor area) on each	S / SE / SW	15%
facade?	W	15%
Daylighting	What is the average daylight factor range?	Target is 2% for occupied rooms.
Window opening	Are windows openable?	Yes, windows and doors facing the inner part of the scheme are openable.
	What is the average percentage of openable area for the windows?	50%
Window opening - What is the extent of the opening?	Fully openable	The opening is up to 50% of the total glazing area, but that area has no obstructions.
	Limited (e.g. for security, safety, wind loading reasons)	Windows are casement and around half the glazing area is openable and the doors are sliding, therefore the limitation is at 50%.
Security	Where there are security issues (e.g. ground floor flats) has an alternative night time natural ventilation method been provided (e.g. ventilation grates)?	Windows with a secured limited aperture for ground floor.
Shading	Is there any external shading?	Yes, the recessed nature of the glazing and balconies will provide solar protection.
	Is there any internal shading?	Curtains and/or internal blinds.
Glazing specification	Is there any solar control glazing?	Glazing with a lower g-value has been specified.
Ventilation - What is the ventilation strategy?	Natural – background	Yes, windows facing the inner part of the scheme are openable in order to provide both background and purge ventilation.

Section 2 - Design features implemented to mitigate overheating risk		Response
		Windows facing outwards are sealed due to noise and air quality issues.
	Natural - purge	Yes, for the units with openable windows.
	Mechanical - background (e.g. MVHR)	Yes, MVHR units will provide both background and purge ventilation.
	Mechanical – purge	Yes
	What is the average design air change rate	4 ACH
Heating system	Is communal heating present?	Yes
	What is the flow/return temperature?	35 degrees
	Have horizontal pipe runs been minimised?	Yes
	Do the specifications include insulation levels in line with the London Heat Network Manual	Not applicable as the project is not connected to a Heat Network.
	Do the specifications include insulation levels in line with the London Heat Network Manual	Not applicable as the project is not connected to a Heat Network.

Table 5.8 - Section 2 of GLA's Domestic Overheating Checklist

5.10 Domestic and Non-domestic Overheating Modelling Assumptions

Overheating assessments have been carried out for the non-domestic and domestic areas using CIBSE Guide A and CIBSE TM59 criteria respectively. The following assumptions have been made.

- The analysis for the non-domestic and domestic areas has been carried out using Dynamic Thermal • Modelling software; EDSL TAS version 9.4. This software tool is fully compliant with the CIBSE Applications Manual 11: Building Energy and Environment Modelling.
- Given the fixed location of the site and its proximity to the nearby road network (A1 & M1), opportunities to design different massing are limited.
- The building orientation is largely fixed by the constraints of the site and its proximity to the nearby road • network. The surrounding buildings have not been modelled in order to represent the worst-case scenario for the proposed development. Trees are conventionally excluded from dynamic thermal models but could provide additional shading at lower levels.
- As per the CIBSE TM49: Design Summer Years for London (2014) guidance and to enable the urban heat • island effect in the locality of the development to be taken into account, the most representative weather data set for the project location is London Heathrow airport. The assessments have been conducted using the DSY1 (Design Summer Year) weather year for the 2020s, high emissions, 50% percentile. Additional testing has been undertaken using the 2020 versions of the following two more extreme design weather years; DSY2 - 2003: a year with a very intense single warm spell; and DSY3 - 1976: a year with a prolonged period of sustained warmth.
- Occupancy patterns and internal gains for the domestic areas are prescribed by the CIBSE TM59 • methodology. The occupancy patterns and internal gains specified in the Simplified Building Energy Model (SBEM) database as proposed by the Energy Performance of Buildings Directive (EPBD) 2002/91/EC of the European Parliament and Council are used for the non-domestic areas - 'A345 EatDrink' and 'D2 FitGym' thermostat changed from 25°C to 23°C.

- Thermal elements performance (U-values and glazing g-values), shading features (i.e. blinds, overhangs etc.) and thermal mass details can be found in section 5.1.1.
- Windows of the domestic areas from level 01 to the top facing the inner part of the development are openable by 50% throughout the day, while windows at ground floor are assumed to have a limiting openable area (10%) due to security issues. Windows of the domestic areas facing outwards are sealed due to noise and air quality issues - these rooms are assumed to have blinds installed. Windows of the non-domestic areas are fixed.
- A representative sample of apartments have been assessed in order to identify all the apartments that might be at risk of overheating. These were those with large glazing areas, having less shading, having large, sun-facing windows, having a single aspect and having limited opening windows. All occupied nondomestic areas of the development have been assessed.

5.11 Domestic Overheating Results for DSY1

Living rooms and bedrooms, as the main occupied zones in the apartments, have been assessed using the London Heathrow DSY1, 2020s, high emissions, 50% percentile weather data and the results are presented in the table below. Results for the London Heathrow DSY1 and DSY2, 2020s, high emissions, 50% percentile weather data are presented in section 11.3.

	Fail	Pass
Ground		
Bedrooms		
Inner	61%	39%
Outer	61%	39%
Living rooms/Kitchens		
Inner	11%	89%
Outer	11%	89%
Levels 01 to top		
Bedrooms		
Inner	19%	81%
Outer	83%	17%
Living rooms/Kitchens		
Inner	17%	83%
Outer	15%	85%

Table 5.9 - Overheating results for the domestic areas using the DSY1 weather data

The inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. Space and water heating is provided in the development by a community heating system, and the Heat Interface Units (HIU) are located in the communal corridors, hence, the pipework connecting to the central system is permanently charged with hot water all year around to meet the hot water demand. Since this pipework is constantly emitting heat, even if well insulated, it can cause an increase in temperature in these spaces, therefore a communal corridor of block B is assessed for overheating.

The analysis includes the communal corridor heat gains from the water heating pipework and HIUs - losses from pipework are calculated using CIBSE Guide C guidance and standing gains from the HIUs are based on manufacturers' recommendations.

TM59 guidance requires that the overheating test for corridors should be based on the number of annual hours for which an operative temperature of 28°C is exceeded. Whilst there is no mandatory target to meet, 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 risk. When assessing the communal corridor of block B more than 3% of the total annual hours exceed an operative temperature of 28°C. Therefore, it is proposed to have mechanical ventilation in the corridors that utilises the staircase smoke ventilation system. The air supply volume will be based on a project specific average heat loss in order to mitigate the overheating risk.

Non-domestic Overheating Results for DSY1 5.12

An overheating assessment has been carried out for the non-domestic areas using CIBSE Guide A for free running buildings. In this case the buildings should be designed to limit the risk of overheating, in accordance with the adaptive comfort methodology outlined in CIBSE TM52: The limits of thermal comfort: avoiding overheating in European buildings. The results for this study are presented in the table below.

	Occupied Summer Hours	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Criterion 2: Peak Daily Weighted Exceedance	Criterion 3: #Hours Exceeding Absolute Limit	Result
Restaurant kitchen	2,448	73	2,448	0	2,448	Fail
Restaurant dining	2,754	82	2,754	0	2,754	Fail
Supermarket display	1,377	41	1,377	0	1,377	Fail
Nursery	814	24	801	14	726	Fail
Fitness centre	1,930	57	1,930	0	1,930	Fail
Coffee shop	2,601	78	2,601	0	2,601	Fail
Coffee shop kitchen	2,601	78	2,601	0	2,601	Fail
Residential meeting space	2,754	82	2,754	0	2,754	Fail
Residents' lounge	2,448	73	2,448	0	2,448	Fail
Coffee shop	2,448	73	2,448	0	2,448	Fail
Coffee shop food prep	2,754	82	2,754	0	2,754	Fail
Hair dresser	1,377	41	1,377	0	1,377	Fail
Dry cleaner	1,836	55	1,836	0	1,836	Fail
Workshare hub	1,377	41	1,377	0	1,377	Fail
Concierge	1,836	55	1,836	0	1,836	Fail
Maintenance office	2,601	78	2,601	0	2,601	Fail
Retail	1,377	41	1,377	0	1,377	Fail

Table 5.10 - Overheating results for the non-domestic areas using the DSY1 weather data for free running buildings

Due to the number of failings, cooling is proposed for the occupied non-domestic areas of the development. For air conditioned buildings, summer operative temperature ranges in occupied spaces are in accordance with the criteria set out in CIBSE Guide A Environmental design, Table 1.5. The results for this additional study are

presented in the table below and the results for the London Heat 50% percentile weather data are presented in section 11.3.

	Operative temperature >24	Operative temperature >25	Operative temperature >26	Operative temperature >27	Operative temperature >28	Result
Restaurant kitchen	0	0	0	0	0	Pass
Restaurant dining	0	0	0	0	0	Pass
Supermarket display	1,587	1,634	0	0	0	Pass
Nursery	91	0	0	0	0	Pass
Fitness centre	280	0	0	0	0	Pass
Coffee shop	1,190	0	0	0	0	Pass
Coffee shop kitchen	0	0	0	0	0	Pass
Residential meeting space	1,821	0	0	0	0	Pass
Residents' lounge	1,973	0	0	0	0	Pass
Coffee shop	2,292	387	0	0	0	Pass
Coffee shop food prep	0	0	0	0	0	Pass
Hair dresser	904	660	11	0	0	Pass
Dry cleaner	1,339	253	0	0	0	Pass
Workshare hub	1,553	606	0	0	0	Pass
Concierge	1,550	0	0	0	0	Pass
Maintenance office	1,202	901	0	0	0	Pass
Retail	927	389	0	0	0	Pass

Table 5.11 - Overheating results for the non-domestic areas using the DSY1 weather data for conditioned buildings

5.13 Active Cooling

No active cooling' is proposed for any of the residential areas of the development. As shown in section 5.12 natural ventilation is not enough to guarantee the occupant's comfort (in line with the cooling hierarchy set out in London Plan Policy 5.9) for the occupied non-domestic areas, therefore the cooling requirements of the different elements of the development are identified in the table below. A detailed breakdown of the cooling demand for all non-domestic areas of the development can be found in Appendix 11.4.

	Area weighted average non-domestic cooling demand (MJ/m²)	Total area weighted non-domestic cooling demand (MJ/year)
Actual	45.1	917,371
Notional	42.3	858,847

Table 5.12 - Cooling demand for the non-domestic areas of the development

hrow	DSY1	and	DSY2,	2020s,	high	emissions,

Heating Infrastructure (Be Clean) 6

6.1 Area-Wide Heat Network

At the time of writing, the London Heat Map shows that there are no existing area wide district heating networks within reasonable connection distance. The Heat Map does reveal that there is a proposed "Colindale CHP" future network on the other side of the M1 motorway.

Preliminary communications with London Borough of Barnet's Energy Resource Manager (section 11.5) suggests that distance & the motorway could be prohibitive. Further feasibility investigations can be undertaken during design development because the magnitude of Pentavia's heat load could be influential.

The Pentavia energy centre will be equipped with appropriate space to facilitate future connection.



Figure 6.1 - Heat Map of Pentavia site (black circle)

6.2 Site-Wide Heat Network

Pentavia will be provided with a communal heat network served by a central energy centre which affords the following advantages:

- Future connection to area wide district heating scheme for energy sharing and network expansion.
- Future installation of advanced technology heat generators towards achieving zero carbon

CHP plant is proposed because of the magnitude of Pentavia's heat demands, which may facilitate future network expansion and connection with "Colindale's Area Action Plan".

ESCOs will be engaged during detailed design to investigate systems, procurement, operating and funding options. 'CIBSE Heat Networks: Code of Practice' will be adopted throughout.

Further details on CHP and energy centre can be found in section 11.6.

At this concept stage, losses from distribution pipework can only be estimated at best and will be accurately calculated during detailed design.

Feasibility of bio-liquid CHP will be investigated during detailed design to further reduce emissions.

'Be Clean' Results 6.3

Table 6.1 and Table 6.2 show the expected carbon emissions and reductions after the introduction of the CHP. The CHP emissions and preliminary demand profiles and a CHP assessment can be found in section 11.6.

Domestic

	Carbon dioxide emissions				
	(Tonnes CO ₂ per annum)				
	Regulated	Unregulated	Total		
Part L 2013 compliant building	1014.4	1121.9	2136.3		
Be Lean	978.1	1121.9	2100.0		
Be Clean	615.2	1121.9	1737.1		
Be Green	-	-	-		

Table 6.1 - Domestic CO_2 emissions after the clean stage of the energy hierarchy

Non-domestic

Carbon dioxide emissions					
((Tonnes CO ₂ per annum)				
Regulated	Unregulated	Total			
301.1	122.1	423.2			
260.5	122.1	382.6			
234.2	122.1	356.3			
-	-	_			
	C (************************************	Carbon dioxide emission(Tonnes CO2 per annumRegulatedUnregulated301.1122.1260.5122.1234.2122.1			

6.4 Air Quality

A comprehensive Air Quality Assessment has been undertaken by Mayer Brown, dated March 2019 and included in the planning submission.

The assessment of building emissions therefore demonstrates that on the worst-case assumption that the cogeneration plant will have a NO_x emission of 50mg/Nm³, the buildings emissions will not reach neutrality. However, it is understood that a Selective Catalytic Reduction System (SCR) which removes NOx from the plant exhaust will be utilised and this will significantly further reduce the Cogeneration Plant NOx emissions. Where an SCR system is applied, the Energy Centre will become air quality positive.

The predicted Total Transport Emissions associated with the Pentavia Development are expected to be higher than the benchmarked emissions. As noted, the GLA AQN Planning Support Update states that in circumstances where the benchmark is exceeded, mitigation measures to reduce emissions may be applied on site or offsite. In relation to this, the Pentavia Site offers a number of encouragements to model shift or 'Active Travel' as supported by Transport for London (TfL), to encourage residents and site users away from car use. These are set out in detail within the Framework Travel Plan submitted with the application

Energy Source	Total Fuel Consumption: Residential	Total Fuel Consumption: Non-Residential
Grid Electricity	411 MWh/year	430 MWh/year
Domestic/Communal Boilers	1,125 MWh/year	343 MWh/year
Gas CHP	4,615 MWh/year	n/a
Connection to existing DH network	n/a	n/a
Other Gas uses	n/a	n/a

Table 6.3 - GLA Reporting Template Table 14: Air Quality Impacts

6.5 Future Proofing

2050 is over 30 years away, during which time the energy landscape could evolve significantly, especially when the rates of change are considered.

The Government's 'Clean Growth Strategy' report, produced to support 'Climate Change Act' commitments, declares that technological breakthroughs that will help deliver the carbon budgets and targets cannot be exactly predicted. The 'pathways' illustrated in the strategy are based on current technologies. For buildings, the proposals include the following:

- Virtually zero carbon electricity grid by 2050
- Smart electricity grids
- Low carbon sources of heating through district heating
- Hydrogen fuel for heating

Advancements in existing and emerging technologies are accelerating, resulting in even further synergies and discoveries. The rate, as well as the nature and magnitude of change are expected to increase. Building level technologies which will be available to facilitate zero carbon operation cannot be exactly predicted now.

However, it is safe to speculate, that when the Government achieves these targets, then this development will be plugged into a zero-carbon infrastructure. It is envisaged that any residual carbon will be mitigated by the building level technology available at that time.

Proposals for this development include an energy centre with district heating network where zero carbon heat generators can be installed in future.

7 Renewable Energy (Be Green)

7.1 Low and Zero Carbon Technologies Study

Photovoltaic panels (PVs)

Photovoltaic panels convert sunlight into usable electricity, at relatively low efficiency of conversion at around 6-19% (depending on the technology) compared to solar thermal collectors (35-65%). Despite this low efficiency their advantage is low maintenance and zero-carbon electricity that offsets grid electricity and hence provides considerable carbon emission savings. Photovoltaic panels operate optimally when installed in a southerly orientation with inclination of 15-45 degrees.

PV technology is proposed for Pentavia, Mill Hill. Although the available unshaded roof area is relatively small when compared to the development's area and electricity requirements, the proposed PV array attempts to maximise the development's renewable energy generation capability.

7.2 'Be Green' Results

PV panels are proposed for Pentavia Mill Hill's energy strategy. A 246 kWp output array is envisaged, which provides a site-wide domestic carbon emission reduction of 6.4%. Drawings provided in the Design and Access Statement illustrate the provisional allocated roof spaces for the PV array.

Table 7.1 and Table 7.2 below show the expected carbon emissions at 'Be Green' stage for the domestic and non-domestic assets in Pentavia, Mill Hill.

Domestic

	Carbon dioxide emissions				
	(Tonnes CO ₂ per annum)				
	Regulated	Unregulated	Total		
Part L 2013 compliant building	1014.4	1121.9	2136.3		
Be Lean	978.1	1121.9	2100.0		
Be Clean	615.2	1121.9	1737.1		
Be Green	531.3	1121.9	1653.2		

Table 7.1 – Domestic CO_2 emissions after the green stage of the energy hierarchy

Non-domestic

	Carbon dioxide emissions				
	(Tonnes CO ₂ per annum)				
	Regulated	Unregulated	Total		
Part L 2013 compliant building	301.1	122.1	423.2		
Be Lean	260.5	122.1	382.6		
Be Clean	234.2	122.1	356.3		
Be Green	234.2	122.1	356.3		

Table 7.2 – Non-domestic CO_2 emissions after the green stage of the energy hierarchy

A roof plan showing the location of the PVs on each block can be seen in the figure on the right.



Figure 7.1 - Roof plan showing the PVs location on each block of the development

8 Carbon Offsetting

As part of the London Plan, developments are required to offset all remaining CO₂ emissions associated with the building through a financial contribution towards measures which reduce CO₂ emissions from the existing building stock.

Barnet SPD – Sustainable design and construction states that carbon offsetting will be considered in line with the Greater London Authority guidance and a figure of \pm 60/tonne will be used over a 30 year period. London Plan Policy 5.2 sets out that where the required percentage improvements beyond Part L of the Building Regulations are not met on-site, any short fall should be provided off-site or through a cash-in-lieu contribution to the relevant borough. The benefit of the fund is in unlocking CO₂ saving measures with boroughs to identify suitable projects. Suitable projects will be identified on a site by site basis focusing on publicly owned buildings such as schools local to the development which can provide wider community benefits.

The CO₂ emissions offset cost is currently therefore set at £1,800/tCO₂.

8.1 Offset Payment

Following the implementation of the energy hierarchy, the estimated carbon shortfall is 569.8 tCO₂/year.

The estimated carbon offset payment for this development is £1,025,649.

9 Monitoring

Smart meters will generally be installed as described in section 5.3 and the CIBSE Heat Networks: Code of Practice guidance document.

10 Conclusion

The energy strategy for Pentavia, Mill Hill targeted demand reduction measures first, giving priority to optimization of building fabric to reduce the need for heating, cooling, and artificial lighting. The objective was to have buildings as energy efficient (i.e. 'lean') as possible without relying on overly complicated systems or technologies to deliver low carbon performance. The aim was to achieve a low-energy building without relying on carbon offsetting technologies only, committing to the priorities set in the London Plan and the Barnet Core Strategies.

The design team has put considerable effort in optimizing the fabric of the building envelope and in implementing other energy demand reduction measures so that the provision of a communal heating system connected to a CHP achieves a carbon emission reduction greater than the minimum target of the London Plan of 35%. Carbon emissions reduction goes beyond this target with the implementation of renewables, in this case PV panels.

The proposed development of Pentavia, Mill Hill achieves overall 41.8% reduction in regulated carbon emissions over the Part L 2013.

BRUKLs 11.1

Be Lean

BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2013

Project name

Mill Hill

As designed

Date: Wed Nov 22 10:29:26 2017

Administrative information **Building Details Owner Details** Address: London, Name: Telephone number: Certification tool Address: , , Calculation engine: TAS **Certifier details** Calculation engine version: "v9.4.0" Name: Interface to calculation engine: TAS Telephone number: Interface to calculation engine version: v9.4.0 Address: , , BRUKL compliance check version: v5.2.g.3

Criterion 1: The calculated CO₂ emission rate for the building should not exceed the target

CO2 emission rate from the notional building, kgCO2/m2.annum	14.8	
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	14.8	
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	12.8	
Are emissions from the building less than or equal to the target?	BER =< TER	
Are as built details the same as used in the BER calculations?	Separate submission	

Criterion 2: The performance of the building fabric and the building services should achieve reasonable overall standards of energy efficiency

Values not achieving standards in the Non-Domestic Building Services Compliance Guide and Part L are displayed in red. **Building fabric**

Element	Ua-Limit	Ua-Calc	Ui-Calc	Surface where the maximum value occurs*
Wall**	0.35	0.24	0.61	spandrel
Floor	0.25	0.16	0.16	Exposed Floor
Roof	0.25	0.13	0.2	Exposed ceiling to resi
Windows***, roof windows, and rooflights	2.2	1.41	1.41	Curtain wall FX
Personnel doors	2.2	-	-	No personal doors in project
Vehicle access & similar large doors	1.5	0 	-	No vehicle doors in project
High usage entrance doors	3.5		-	No high usage entrance doors in project
Uatumt = Limiting area-weighted average U-values Ua-Calc = Calculated area-weighted average U-value * There might be more than one surface where the ** Automatic U-value check by the tool does not ap *** Display windows and similar glazing are exclud N.B.: Neither roof ventilators (inc. smoke vents) no	W/(m ² K)] es [W/(m ² K) maximum l ply to curtated from the r swimming] U-value oc in walls wl U-value c pool basii	U _{I-Calc} = C ccurs. hose limitii heck. ns are mod	Calculated maximum individual element U-values [W/(m²K)] ng standard is similar to that for windows. delled or checked against the limiting standards by the tool.
Air Permeability Wo	rst accer	otable s	tandard	This building

Air Permeability	Worst acceptable standard	This building
m ³ /(h.m ²) at 50 Pa	10	3

Page 1 of 10

Building services

The standard values listed below are minimum values for efficiencies and maximum values for SFPs. Refer to the Non-Domestic Building Services Compliance Guide for details.

Whole building lighting automatic monitoring & targeting with alarms fo	ro
Whole building electric power factor achieved by power factor correction	n

1- Plant areas (19 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HF	R efficiency			
This system	0.91		270	1.1	0.7	7			
Standard value	N/A	N/A	N/A	1.1^	N//	A			
Automatic moni	Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes									

additional components as listed in the Guide.

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency
This system	0		-	1	0.7
Standard value	N/A	N/A	N/A	N/A	0.5

3- Communal areas (39 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HF	R efficiency
This system	0.91	÷	3 2	1.5	0.7	7
Standard value	N/A	N/A	N/A	1.5^	0.6	65
Automatic moni	toring & targeting w	ith alarms for out-of	-range values for thi	is HVAC system	n	YES
^ Allowed SFP may b	e increased by the amount	ts specified in the Non-Don	nestic Building Services Co	mpliance Guide if th	ie sys	stem includes

4- Carpark (LG car park)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency	
This system	0	×	3 - 0	1.4	0.7	
Standard value	N/A	N/A	N/A	N/A	0.65	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system						

5- Eat & drink (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency				
This system	0.91	5	-	1.5	0.7				
Standard value	N/A	2.6	N/A	1.6^	0.65				
Automatic moni	Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
^ Allowed SFP may b additional component	e increased by the amount ts as listed in the Guide.	s specified in the Non-Dom	nestic Building Services Co	mpliance Guide if th	e system includes				

6- Retail (2 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HF	R efficiency			
This system	0.91	5		1.5	0.7	7			
Standard value	N/A	2.6	N/A	1.6^	0.6	65			
Automatic moni	Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
^ Allowed SFP may b	e increased by the amount	ts specified in the Non-Don	nestic Building Services Co	mpliance Guide if th	ne sys	stem includes			

additional components as listed in the Guide.

out-of-range values	NO
	<0.9

Page 2 of 10

7- Creche (Core D G nursery)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency
This system	0.91	5		1.5	0.7
Standard value	N/A	2.6	N/A	1.6^	0.65
Automatic moni	toring & targeting w	ith alarms for out-of	f-range values for th	is HVAC syster	n YES
^ Allowed SFP may b additional component	be increased by the amount ts as listed in the Guide.	ts specified in the Non-Don	nestic Building Services Co	mpliance Guide if th	e system includes

8- Fitness Centre (Core F G fitness centre)

fficiency	HR	SFP [W/(l/s)]	Radiant efficiency	Cooling efficiency	Heating efficiency				
	0.7	1.5	1070	5	0	This system			
l.	0.6	1.6^	N/A	2.6	N/A	Standard value			
ES	Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
E	m	s HVAC system	-range values for thi	ith alarms for out-of	toring & targeting w	Automatic moni			

^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

9- Salon (Core K G hair dresser)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HF	R efficiency
This system	0.91	5		1.5	0.7	7
Standard value	N/A	2.6	N/A	1.6^	0.6	65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system						

^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

10- Concierge (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency	
This system	0.91	5		1.5	0.7	
Standard value	N/A	2.6	N/A	1.6^	0.65	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system						

^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

11- Office (2 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency
This system	0.91	5		1.5	0.7
Standard value	N/A	2.6	N/A	1.6^	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES					
^ Allowed SFP may b additional component	e increased by the amount is as listed in the Guide.	s specified in the Non-Dom	nestic Building Services Co	mpliance Guide if th	e system includes

12- Supermarket (2 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficien	icy
This system	0.91	5	92C	1.5	0.7	
Standard value	N/A	2.6	N/A	1.6^	0.65	
Automatic moni	toring & targeting w	ith alarms for out-of	-range values for thi	is HVAC syster	n YES	
^ Allowed SFP may b additional component	be increased by the amount ts as listed in the Guide.	ts specified in the Non-Don	nestic Building Services Co	mpliance Guide if th	e system includ	les

13- Store

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency
This system	0.91		8 7 .	-	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic moni	toring & targeting w	ith alarms for out-of	-range values for th	is HVAC syster	n YES

1- New HWS Circuit

	Water heating efficiency	Storage loss f
This building	0.91	0
Standard value	0.9*	N/A
* Standard shown is for	gas boilers >30 kW output. For boilers <=30 kW	N/A output. limiting efficiency

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

General lighting and display lighting	Luminous efficacy [Im/			
Zone name	Luminaire	Lamp	Displa	
Standard value	60	60	22	
Core A LG restaurant dining	-	80	22	
Core A LG restarant kitchen	1.74	80	10-11	
Core A LG circ		80	13 7 8	
Core A LG stairs)=0	80	39 - 3	
Core A LG refuse	80	-	3 - 3	
Core A LG store	80	-	2120	
Core A LG bike store	80	2	1121	
Core C LG energy centre	80	2	79 <u>1</u> 9	
Core C LG sprinkler tank room	80	-	-	
Core C LG comm room	80	-	18 - 31	
Core C LG boiler room	80	-	22 - 2	
Core C LG flues	80	-	39 - 3	
Core C LG LV switch room	80	-	2 - 2	
Core C LG gas meter	80	-	22	
Core C LG substation	80	2	0120	
Core C LG circ 1	120	80	27 <u>1</u> 2	
Core C LG stairs	-	80	-	
Core C LG circ 2		80	11 - 11	
Core C LG refuse	80		25 - 3	
Core E LG water store	80	-	3 . -3	
Core E LG bike store	80	-	(14)	
Core E LG circ1		80	31 4 1	
Core E LG circ2	5 2 8	80	20 1 0	
Core E LG stairs	120	80	20 <u>1</u> -2	
Core E LG refuse	80	-	-	
Core G LG stairs	(- 8	80	9 - 3	
Core G LG circ		80	25 - 3	
Core G LG bike store	80	-	36 - 3	
Core G LG refuse	80	-	2 4 2	
Core I LG stairs		80	222	

factor [kWh/litre per day]

).73.

/W]	
ay lamp	General lighting [W]
	610
	593
	188
	84
	52
	40
	91
	1008
	133
	136
	149
	110
	206
	120
	142
· · · · · · · · · · · · · · · · · · ·	130
	83
	102
	49
	115
	133
	166
	77
	86
	53
	76
	150
	66
	43
	75
	a second and a second a

Page 4 of 10

General lighting and display lighting	Luminous efficacy [lm/W]			1
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	<u> </u>
Core I LG circ	-	80	-	99
Core I LG bike store	80	-	() - ()	81
Core I LG refuse	80	2	32 - 9	47
Core J LG stairs	1.0	80	12	64
Core J LG circ		80	-	156
Core J LG refuse	80	-		35
Core J LG bike store	80	-		89
Core L LG stairs	-	80	-	90
Core L LG refuse	80	-	0 	45
Core L LG circ	3-13	80	() _ ()	157
Core L LG bike store	80	-	(/ 4)	134
Core L LG LV switch room	80	-	12	252
Core L LG substation	80	2	-	188
Core N LG stairs		80		72
Core N LG circ		80		73
Core N LG bike store	80	-	-	64
Core N LG refuse	80	-		42
Core O LG stairs	1-0	80	(1 -)	61
Core O LG circ	323	80	52 - 5	61
Core O LG bike store	80	-	9 2 3	92
Core O LG refuse	80	2	-	32
Core Q LG stairs		80	-	84
Core Q LG circ		80		154
Core Q LG bike store	80	-	-	133
Core Q LG refuse	80	-	0. 	45
Core Q LG LV switch room	80	-	() _ ()	243
Core Q LG substation	80	2	52 - 9	187
Core R LG stairs		80	12	78
Core R LG circ		80	-	112
Core R LG bike store	80	-	.	73
Core R LG refuse	80	-	10 7 0	38
Core R LG LV switch room	80	-	-	260
Core R LG substation	80	-	00 7 .0	153
Core B LG supermarket display	3=13	80	22	5386
Core B LG supermarket store	80	-	52 - 5	180
Core B LG stairs	-	80	5 <u>-</u> 5	88
Core B LG circ1	(a)	80	-	113
Core B LG circ2		80	-	61
Core B LG bike store	80	-	817-2	48
Core B LG refuse	80	-	-	36
Core D LG stairs		80		92
Core D LG circ		80		159
Core D LG refuse	80	-	57 4 9	37

General lighting and display lighting	Luminous efficacy [lm/W]			
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	2010 - 2014 000 - 1
Core D LG bike store	80	-	9 - 8	192
Core D LG LV switchroom	80	-	97 — 0	311
Core D LG substation	80	-	32 - 9	277
Core F LG stairs	121	80	12	93
Core F LG circ	-	80	-	153
Core F LG refuse	80		11 	36
Core F LG bike store	80	-	31 7 8	91
Core F LG LV switchroom	80	-	35 7 5	276
Core F LG substation	80	-	(s=c	152
Core H LG stairs	3-15	80	97 - 0	93
Core H LG circ	-	80	3 - 9	155
Core H LG refuse	80	-	92	35
Core H LG bike store	80	-	-	105
Core K LG stairs	170	80	11 5 12	89
Core K LG circ		80	11. 2	143
Core K LG refuse	80	-	31 3	59
Core K LG bike store	80	-	53 4 6	59
Core M LG stairs		80	97 — 2	91
Core M LG circ	120	80	\$2 4 \$	123
Core M LG refuse	80	-	92)	46
Core M LG bike store	80	-	-	68
Core M LG water tank	80	-	11 5 12	137
Core P LG stairs		80	31 7 3	75
Core P LG circ	-	80	20 0 0	84
Core P LG refuse	80	-	3 1- 8	70
Core P LG bike store	80	-	(1=)	78
LG car park	140	80	3 - 9	24712
Core P G maintenance office	80	-	92	794
Core P G concierge	-	80	22	280
Core P G retail	1.725	80	22	847
Core M G workshare hub	80	-	11 2	1117
Core M G dry cleaner		80	22	2203
Core K G coffee shop		80	22	347
Core K G coffee shop food prep	-	80	01 = 0	332
Core K G hair dresser	121	80	22	1482
Core H G resindents lounge	-	80	22	296
Core H G resi meeting space	-	80	22	448
Core H G coffee shop kitchen	172	80	11 7 1	343
Core H G coffee shop	-	80	22	314
Core F G fitness centre	-	80	31 3 13	430
Core D G nursery	80	-	1. .	781

Page 5 of 10

Page 6 of 10

Criterion 3: The spaces in the building should have appropriate passive control measures to limit solar gains

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Core A LG restaurant dining	N/A	N/A
Core B LG supermarket display	N/A	N/A
Core B LG supermarket store	N/A	N/A
Core P G maintenance office	NO (-60%)	YES
Core P G concierge	NO (-67%)	YES
Core P G retail	NO (-51%)	YES
Core M G workshare hub	NO (-73%)	YES
Core M G dry cleaner	NO (-49%)	YES
Core K G coffee shop	NO (-22%)	YES
Core K G hair dresser	NO (-37%)	YES
Core H G resindents lounge	NO (-57%)	YES
Core H G resi meeting space	NO (-73%)	YES
Core H G coffee shop	NO (-78%)	YES
Core F G fitness centre	NO (-78%)	YES
Core D G nursery	NO (-79%)	YES

Criterion 4: The performance of the building, as built, should be consistent with the calculated BER

Separate submission

Criterion 5: The necessary provisions for enabling energy-efficient operation of the building should be in place

Separate submission

EPBD (Recast): Consideration of alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	YES
Is evidence of such assessment available as a separate submission?	YES
Are any such measures included in the proposed design?	YES

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters			Build	ing Use
	Actual	Notional	% Area	Building Type
Area [m²]	20321	20321	5	A1/A2 Retail/Finance
External area [m ²]	36219	36219	3	A3/A4/A5 Restaura
Weather	LON	LON		B1 Offices and Work
Infiltration [m ³ /hm ² @ 50Pa]	3	3		B8 Storage or Distrib
Average conductance [W/K]	6333	8632	14 C1 Hote C2 Res	C1 Hotels
Average U-value [W/m ² K]	0.17	0.24		C2 Residential Inst.:
Alpha value* [%]	4.55	4.55		C2 Residential Inst.: C2 Residential Inst.:
* Percentage of the building's average heat transfer coefficient which is due to thermal bridging				C2A Secure Resider
			6	Residential spaces
			D1 Non-residential Ir	
				D1 Non-residential Ir
			stication of the second s	

ntial Inst. 5 1 D1 Non-residential Inst.: Education D1 Non-residential Inst.: Primary Health Care Building D1 Non-residential Inst.: Crown and County Courts D2 General Assembly and Leisure, Night Clubs and Theatres 1 Others: Passenger terminal Others: Emergency services Others: Miscellaneous 24hr activities 71 Others: Car Parks 24 hrs

Others - Stand alone utility block

Energy Consumption by End Use [kWh/m ²]				
	Actual	Notional		
Heating	5.21	6.47		
Cooling	2.51	3.1		
Auxiliary	1.24	1.27		
Lighting	17.42	20.81		
Hot water	3.27	3.13		
Equipment*	11.58	11.58		
TOTAL**	29.65	34.77		

* Energy used by equipment does not count towards the total for 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		

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	62.21	62.35
Primary energy* [kWh/m ²]	75.33	87.07
Total emissions [kg/m ²]	12.8	14.8

* Primary energy is net of any electrical energy displaced by CHP generators, if applicable.

Page 7 of 10

icial and Professional services

ants and Cafes/Drinking Est./Takeaways kshop bus

dustrial and Special Industrial Groups bution

: Hospitals and Care Homes

: Residential schools : Universities and colleges

Inst.: Community/Day Centre

Inst.: Libraries, Museums, and Galleries

Page 8 of 10

H	HVAC Systems Performance									
Sys	stem 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] No Heatin	g or Coolin	g			22		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Actual	13.1	0	4.2	0	1.7	0.86	0	0.91	0
	Notional	10.2	0	3.4	0	2.3	0.82	0		
[ST] No Heatin	g or Coolin	g							
35	Actual	0	0	0	0	20.1	0	0	0	0
	Notional	0	0	0	0	22.4	0	0		
[ST] Central he	eating using	g water: rad	iators, [HS]	LTHW boi	ler, [HFT] N	atural Gas,	[CFT] Elect	tricity	
	Actual	19.5	0	6.3	0	3.5	0.86	0	0.91	0
	Notional	27.3	0	9.2	0	5.3	0.82	0		
[ST] No Heatin	g or Coolin	g							
	Actual	0	0	0	0	0	0	0	0	0
	Notional	0	0	0	0	0	0	0		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity	ss	
	Actual	2.3	731.1	0.7	42.8	12.2	0.86	4.75	0.91	5
	Notional	17	682.4	5.8	52.7	10.6	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity		
	Actual	2.4	230.4	0.8	13.5	4.4	0.86	4.75	0.91	5
	Notional	6.4	200	2.2	15.4	4.4	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity		
	Actual	1.4	105.5	0.5	6.2	6.9	0.86	4.75	0.91	5
	Notional	8.7	102.5	2.9	7.9	6	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	icity		
	Actual	0	81.8	0	4.8	28.9	0	4.75	0	5
	Notional	3	80.9	1	6.2	25.1	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity		2
	Actual	3	238.1	1	13.9	4.4	0.86	4.75	0.91	5
	Notional	8.7	175.3	3	13.5	3.8	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity		
33	Actual	0.1	297.5	0	17.4	6.8	0.86	4.75	0.91	5
	Notional	4.8	244.4	1.6	18.9	5.9	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	ricity		
	Actual	9.3	204.3	3	12	5	0.86	4.75	0.91	5
	Notional	26.5	156.8	9	12.1	4.4	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas, [CFT] Electi	icity		
	Actual	12.1	528.1	3.9	30.9	4.3	0.86	4.75	0.91	5
	Notional	13.9	537.9	4.7	41.5	3.8	0.82	3.6		
[ST] No Heatin	g or Coolin	g							
Î	Actual	143.4	0	46.1	0	0	0.86	0	0.91	0
	Notional	161.7	0	54.8	0	0	0.82	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

 Heat con [kWh/m2]
 = Heating energy consumption

 Cool con [kWh/m2]
 = Cooling energy consumption

 Aux con [kWh/m2]
 = Auxiliary energy consumption

 Heat SEFF
 = Heating system seasonal efficiency (for notional building, value depends on activity glazing class)

 Cool SSEER
 = Cooling system seasonal efficiency ratio

 Heat gen SSEFF
 = Heating generator seasonal efficiency

 Cool gen SSEER
 = Cooling generator seasonal efficiency ratio

 ST
 = System type

Key Features

The BCO can give particular attention to items with specifications that are better than typically expected. **Building fabric**

Element Ui-Typ Ui-Min Surface where the min Wall 0.23 0.18 External Wall Floor 0.2 0.16 Exposed Floor Roof 0.15 0.13 Roof Windows, roof windows, and rooflights 1.5 1.41 Curtain wall FX Personnel doors 1.5 No personal doors in pr Vehicle access & similar large doors 1.5 No vehicle doors in proj High usage entrance doors 1.5 No high usage entrance U_{i-Typ} = Typical individual element U-values [W/(m²K)] Ui-Min = Minimum individual ele * There might be more than one surface where the minimum U-value occurs.

Air Permeability	Typical value	This building	
m ³ /(h.m ²) at 50 Pa	5	3	

Page 9 of 10

nimum value occurs*				
roject				
oject				
e doors in project				
ement U-values [W/(m ² K)]				

Page 10 of 10

BRUKL Output Document Interview HM Government Compliance with England Building Regulations Part L 2013

As designed

Project name

Mill Hill

Date: Wed Nov 22 09:44:11 2017

Administrative information

Building Details	Owner Details	
Address: London,	Name:	
	Telephone number:	
Certification tool	Address: , ,	
Calculation engine: TAS		
Calculation engine version: "v9.4.0"	Certifier details	
Interface to calculation engine: TAS	Name:	
Interface to calculation engine version: v9.4.0	Telephone number:	
BRUKL compliance check version: v5.2.g.3	Autress. , ,	

Criterion 1: The calculated CO₂ emission rate for the building should not exceed the target

CO ₂ emission rate from the notional building, kgCO ₂ /m ² .annum	14.8
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	14.8
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	11.5
Are emissions from the building less than or equal to the target?	BER =< TER
Are as built details the same as used in the BER calculations?	Separate submission

Criterion 2: The performance of the building fabric and the building services should achieve reasonable overall standards of energy efficiency

Values not achieving standards in the Non-Domestic Building Services Compliance Guide and Part L are displayed in red. **Building fabric**

Element	Ua-Limit	Ua-Calc	Ui-Calc	Surface where the maximum value occurs*
Wall**	0.35	0.24	0.61	spandrel
Floor	0.25	0.16	0.16	Exposed Floor
Roof	0.25	0.13	0.2	Exposed ceiling to resi
Windows***, roof windows, and rooflights	2.2	1.41	1.41	Curtain wall FX
Personnel doors	2.2		-	No personal doors in project
Vehicle access & similar large doors	1.5		-	No vehicle doors in project
High usage entrance doors	3.5	2 2 3		No high usage entrance doors in project
Uatumt = Limiting area-weighted average U-values [V Uarcale = Calculated area-weighted average U-values * There might be more than one surface where the n ** Automatic U-value check by the tool does not app *** Display windows and similar glazing are excluder N B : Network and similar glazing are excluder	V/(m ² K)] s [W/(m ² K)] naximum l ly to curtai d from the	J-value oc n walls wi U-value c	Ui-calc = 0 ccurs. nose limitin heck.	alculated maximum individual element U-values [W/(m²K)] ng standard is similar to that for windows.

Air Permeability	Worst acceptable standard	This building
m3/(h.m2) at 50 Pa	10	3

Page 1 of 12

Building services

The standard values listed below are minimum values for efficiencies and maximum values for SFPs. Refer to the Non-Domestic Building Services Compliance Guide for details.

Whole building	lighting automatic monitoring & targeting with alarms for o	0
Whole building	electric power factor achieved by power factor correction	

1- Plant areas (19 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency
This system	0.45	-	
Standard value	N/A	N/A	N/A
Automatic moni	toring & targeting w	ith alarms for out-of	-range values for th
^ Allowed SFP may b additional component	e increased by the amounts as listed in the Guide.	ts specified in the Non-Don	nestic Building Services Co

2- Food Prep Areas (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency		
This system	0			1	0.7		
Standard value	Standard value N/A N/A N/A 0.5						
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES							

3- Communal areas (39 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency		
This system	0.45		-	1.5	0.7		
Standard value	N/A	N/A	N/A	1.5^	0.65		
Automatic moni	toring & targeting w	ith alarms for out-of	-range values for thi	is HVAC system	n YES		
^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.							

4- Carpark (LG car park)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency	
This system	0			1.4	0.7	
Standard value	N/A	N/A	N/A	N/A	0.65	
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system						

5- Eat & drink (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency			
This system	0.45	5	-	1.5	0.7			
Standard value	N/A	2.6	N/A	1.6^	0.65			
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes								

additional components as listed in the Guide.

6- Retail (2 Zones)

Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HF	R efficiency	
0.45	5		1.5	0.7	0.7	
N/A	2.6	N/A	1.6^	0.6	65	
oring & targeting w	ith alarms for out-of	-range values for th	is HVAC syster	n	YES	
	Heating efficiency 0.45 W/A pring & targeting w	Heating efficiency Cooling efficiency 0.45 5 V/A 2.6 bring & targeting with alarms for out-of	Heating efficiency Cooling efficiency Radiant efficiency 0.45 5 - 0/A 2.6 N/A bring & targeting with alarms for out-of-range values for the 1	Heating efficiency Cooling efficiency Radiant efficiency SFP [W/(l/s)] 0.45 5 - 1.5 V/A 2.6 N/A 1.6^ bring & targeting with alarms for out-of-range values for this HVAC system HVAC system	Heating efficiency Cooling efficiency Radiant efficiency SFP [W/(I/s)] HF 0.45 5 - 1.5 0.7 V/A 2.6 N/A 1.6^ 0.6 bring & targeting with alarms for out-of-range values for this HVAC system	

ional components as listed in the Guide.

but-or-range values	NO
	<0.9

07

	0.7			
1.1^	N/A			
HVAC system		YES		
npliance Guide if th	ne sy	stem includes		

Page 2 of 12

7- Creche (Core D G nursery)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	0.45	5 -		1.5 0.7	
Standard value	N/A	2.6	N/A	1.6^	0.65
Automatic mon	itoring & targeting w	vith alarms for out-of	f-range values for th	is HVAC system	m YES
^ Allowed SFP may t additional componen	be increased by the amoun ts as listed in the Guide.	ts specified in the Non-Don	nestic Building Services Co	mpliance Guide if th	ne system includes

8- Fitness Centre (Core F G fitness centre)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency		
This system	0	5	(e)	1.5	0.7		
Standard value	N/A	2.6	N/A	1.6^	0.65		
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES							
A Allowed SEP may be increased by the amounts specified in the Nex Demostic Building Services Compliance Guide if the system includes							

additional components as listed in the Guide.

9- Salon (Core K G hair dresser)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency		
This system	0.45	5	6 7)	1.5	0.7		
Standard value	N/A	2.6	N/A	1.6^	0.65		
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES							
^ Allowed SEP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes							

additional components as listed in the Guide.

10- Concierge (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficien	су			
This system	0.45	5	11 7 1	1.5	0.7				
Standard value	N/A	2.6	N/A	1.6^	0.65				
Automatic moni	itoring & targeting w	ith alarms for out-of	-range values for th	is HVAC syster	n YES				
^ Allowed SFP may b additional componen	^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.								

11- Office (2 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency		
This system	0.45	5	1971 1971	1.5	0.7		
Standard value	N/A	2.6	N/A	1.6^	0.65		
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system							

^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

12- Supermarket (2 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HF	R efficiency			
This system	0.45	5		1.5	0.7				
Standard value	N/A	2.6	N/A	1.6^	0.6	65			
Automatic moni	Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES								
^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.									

13- Store Heating efficiency Cooling efficiency Radiant efficiency This system 0.45 N/A Standard value N/A N/A Automatic monitoring & targeting with alarms for out-of-range values for this 1- New HWS Circuit Water heating efficiency This building Hot water provided by HVAC system 0 Standard value N/A N/A 1- New Heating Circuit **CHPQA** quality index CHP electrical efficiency This building 140 0.35 Standard value 105 0.2 Local mechanical ventilation, exhaust, and terminal units ID System type in Non-domestic Building Services Compliance Guide A Local supply or extract ventilation units serving a single area B Zonal supply system where the fan is remote from the zone C Zonal extract system where the fan is remote from the zone D Zonal supply and extract ventilation units serving a single room or zone with heating and heat recovery E Local supply and extract ventilation system serving a single area with heating and heat recovery Other local ventilation units F G Fan-assisted terminal VAV unit H Fan coil units I Zonal extract system where the fan is remote from the zone with grease filter Zone name SFP [W/(I/s)] ID of system type A B C D E F G Standard value 0.3 1.1 0.5 1.9 1.6 0.5 1.1 1.5 Core A LG restaurant dining 12 123 Core A LG restarant kitchen

Core A LG circ	5		2.53	1.5	5		0.70
Core A LG stairs		-		1.5	-	-	2572
Core C LG circ 1			-	1.5	-	-	19 . 9
Core C LG stairs	34			1.5	-	-	33 4 3
Core C LG circ 2	14	-	-	1.5	-	-	1920
Core E LG circ1	-	2	22	1.5	12	-	0.40
Core E LG circ2	-	1	1423	1.5	12	20	323
Core E LG stairs	1	-	-	1.5	-	-	-
Core G LG stairs		5		1.5	-		11 . 1
Core G LG circ		-		1.5	-	-	2572
Core I LG stairs	1-	-	-	1.5	-	-	3 - 3
Core I LG circ		-		1.5	-		28 4 2
Core J LG stairs	<u></u>	-	-	1.5	-	-	322
Core J LG circ	-	2		1.5	12	4	040
Core L LG stairs	12	12	10423	1.5	12	25	73 <u>2</u> %

SFP [W/(l/s)]	HR efficiency			
-	-		-	
N/A	N/A			
HVAC system		YES		

Storage loss factor [kWh/litre per day]

н	1	HR efficiency		
0.5	1	Zone	Standard	
201	je -	2	N/A	
-	1	-	N/A	
50		-	N/A	
-	-	-	N/A	
-	-	-	N/A	
-	-	-	N/A	
-	4	-	N/A	
28	2	-	N/A	
201	12	2	N/A	
-0	-	-	N/A	
50	-	-	N/A	
-	-	-	N/A	
-	-	-	N/A	
-	-	-	N/A	
	-	-	N/A	
28	2	-	N/A	
201	12	2	N/A	

Page 4 of 12

Zone name	SFP [W/(l/s)]								<i></i> .		
ID of system type	Α	в	С	D	E	F	G	н	1	HRE	efficiency
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
Core L LG circ	2	-	-	1.5	-	-	(1)	-	-	-	N/A
Core N LG stairs	4	6	1122	1.5	-	2	12	120	ъ.	2	N/A
Core N LG circ			-	1.5	4	-	-	-	-	-	N/A
Core O LG stairs		-	0.76	1.5	-	-	-	-	-	-	N/A
Core O LG circ	-	-	10	1.5	-	-	1.70			-	N/A
Core Q LG stairs	-	-		1.5	-	-			-	*	N/A
Core Q LG circ		-	-	1.5	-	-	-	-	-		N/A
Core R LG stairs	-	-	20 4 0	1.5	-	÷	141	(4)	-	-	N/A
Core R LG circ	<u>.</u>	2	220	1.5	2	-	(1)	1.00	-	-	N/A
Core B LG supermarket display	с. -	÷	1122	1.5	-	9	220	120	-	2	N/A
Core B LG supermarket store	1	-	-	1.5	-	-	-	-	-	1	N/A
Core B LG stairs		-	0.75	1.5	-	-	1570	100	-	75	N/A
Core B LG circ1		-	10	1.5	-	-	30 7 0		-	-	N/A
Core B LG circ2	-		(1)	1.5		-	1. . .	2 8 3	-	-	N/A
Core D LG stairs		-	-	1.5	-	-	-	-	-		N/A
Core D LG circ	-	-	51 4 1	1.5	-	-	(H)	(1 47)	-	-	N/A
Core F LG stairs	<u>.</u>	2	-	1.5	-	-	-	-	-		N/A
Core F LG circ	а. С	÷	1122	1.5	-	9	220	120	-	2	N/A
Core H LG stairs	1	-	-	1.5	-	-	-	-	-	1	N/A
Core H LG circ			0.75	1.5	-	-	1.50	100	-	75	N/A
Core K LG stairs		-	8 - 2	1.5	-	-	1.75	111	-	-	N/A
Core K LG circ				1.5		-		2 8 3	-	=	N/A
Core M LG stairs	<u>.</u>			1.5	-	-		-	Ξ.	н.	N/A
Core M LG circ	-	-	8 9 0	1.5	-			(4 3)	×	-	N/A
Core P LG stairs	-	2	200	1.5	-	-		141	-	2	N/A
Core P LG circ	2	÷	1122	1.5	-	9	1223	140	4	2	N/A
Core P G maintenance office	-	-	-	1.5	-	-	-	-	-		N/A
Core P G concierge	5. 197		0.76	1.5			1.70		-	75	N/A
Core P G retail	<i></i>		10	1.5		-	878			a	N/A
Core M G workshare hub	3	-		1.5		-		5 - 5	-	*	N/A
Core M G dry cleaner	<u></u>		-	1.5	-	×	-			÷	N/A
Core K G coffee shop	-	-	8 14 1	1.5			(H)	(1 43)	×	-	N/A
Core K G coffee shop food prep	4	2	-	-	4	-	-	1411	1	ш. С	N/A
Core K G hair dresser	2	÷	1122	1.5	-	9	1223	140	4	2	N/A
Core H G resindents lounge	-	-	-	1.5	-	-	-	-	-		N/A
Core H G resi meeting space	2 47		0.76	1.5			0.50	17.0	-	73	N/A
Core H G coffee shop kitchen	10			s s	-	-	1.70	1.00	1	-	N/A
Core H G coffee shop	<u>.</u>			1.5		-		2 8 3	-		N/A
Core F G fitness centre	<i>.</i>		-	1.5	-	*	() - ()		×	-	N/A
Core D G nursery	-	-	5-0	1.5		-	1.42	(4)	-	-	N/A

General lighting and display lighting	Lumino	ous effic		
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	
Core A LG restaurant dining		80	22	610

General lighting and display lighting	Lumine	ous effic		
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	
Core A LG restarant kitchen	-	80	(4)	593
Core A LG circ	-	80	8 <u>0</u> 8	188
Core A LG stairs	-	80	-	84
Core A LG refuse	80	-		52
Core A LG store	80	-	10 7 3	40
Core A LG bike store	80	-		91
Core C LG energy centre	80	-	0 - 0	1008
Core C LG sprinkler tank room	80	-	7 4 6	133
Core C LG comm room	80	2	(4)	136
Core C LG boiler room	80	2	828	149
Core C LG flues	80	-	-	110
Core C LG LV switch room	80	-	. .	206
Core C LG gas meter	80	-		120
Core C LG substation	80	-	-	142
Core C LG circ 1	-	80		130
Core C LG stairs	140 C	80		83
Core C LG circ 2	-	80		102
Core C LG refuse	80	2	828	49
Core E LG water store	80	-	-	115
Core E LG bike store	80	-	10 7 0	133
Core E LG circ1	-	80		166
Core E LG circ2	-	80	-	77
Core E LG stairs	-	80		86
Core E LG refuse	80	-		53
Core G LG stairs	-	80		76
Core G LG circ	-	80	826	150
Core G LG bike store	80	-	-	66
Core G LG refuse	80	-	10 7 0	43
Core I LG stairs	-	80		75
Core I LG circ	-	80	-	99
Core I LG bike store	80	-	()=)	81
Core I LG refuse	80	-	20 4 8	47
Core J LG stairs	-	80	20 4 9	64
Core J LG circ	-	80	828	156
Core J LG refuse	80	-	14	35
Core J LG bike store	80	-	-	89
Core L LG stairs	-	80	-	90
Core L LG refuse	80	-	-	45
Core L LG circ	-	80	()	157
Core L LG bike store	80	-	1.41	134
Core L LG LV switch room	80	2	21 4 0	252
Core L LG substation	80	2	8 <u>9</u> 8	188
Core N LG stairs		80	-	72

Page 5 of 12

Page 6 of 12

General lighting and display lighting	Luminous efficacy [Im/W]			1
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	
Core N LG circ	-	80	() 1	73
Core N LG bike store	80	-	820	64
Core N LG refuse	80	-	1	42
Core O LG stairs	-	80	20 - 0	61
Core O LG circ	-	80	80 - 8	61
Core O LG bike store	80	-	-	92
Core O LG refuse	80	-	-	32
Core Q LG stairs		80	19 4 0	84
Core Q LG circ	-	80	() 2)	154
Core Q LG bike store	80	-	22	133
Core Q LG refuse	80	-	-	45
Core Q LG LV switch room	80	-		243
Core Q LG substation	80	-		187
Core R LG stairs	-	80	-	78
Core R LG circ	-	80	-	112
Core R LG bike store	80	-	1940	73
Core R LG refuse	80	2	() 1 1	38
Core R LG LV switch room	80	-	820	260
Core R LG substation	80	-	1	153
Core B LG supermarket display	-	80	22	5386
Core B LG supermarket store	80	-	-	180
Core B LG stairs	-	80	-	88
Core B LG circ1	-	80	-	113
Core B LG circ2	1-0	80	2 . =0	61
Core B LG bike store	80	2		48
Core B LG refuse	80	2	828	36
Core D LG stairs	-	80	-	92
Core D LG circ	-	80	1.70	159
Core D LG refuse	80	-	-	37
Core D LG bike store	80	-	-	192
Core D LG LV switchroom	80	-		311
Core D LG substation	80	-	-	277
Core F LG stairs	-	80	() 2)	93
Core F LG circ	-	80	222	153
Core F LG refuse	80	-	-	36
Core F LG bike store	80	-	(1977)	91
Core F LG LV switchroom	80	-	10 7 0	276
Core F LG substation	80	-	-	152
Core H LG stairs	-	80	-	93
Core H LG circ	-	80		155
Core H LG refuse	80		() 1 1	35
Core H LG bike store	80	-	220	105
Core K LG stairs	-	80	-	89

General lighting and display lighting	Lumine	ous effic]	
Zone name	Luminaire	Lamp	Display lamp	General lighting [W
Standard value	60	60	22	
Core K LG circ	-	80	20 4 0	143
Core K LG refuse	80	2	828	59
Core K LG bike store	80	-	-	59
Core M LG stairs	:50	80	1254	91
Core M LG circ		80	85 - 5	123
Core M LG refuse	80	-	8 .	46
Core M LG bike store	80	-	(-)	68
Core M LG water tank	80	÷	7. 9 2	137
Core P LG stairs	-	80	20 4 0	75
Core P LG circ	с. С	80	828	84
Core P LG refuse	80	-	-	70
Core P LG bike store	80	-	0.50	78
LG car park	-	80	8 - 3	24712
Core P G maintenance office	80	-	8 .	794
Core P G concierge		80	22	280
Core P G retail	(m)	80	22	847
Core M G workshare hub	80	ш.	20 4 0	1117
Core M G dry cleaner		80	22	2203
Core K G coffee shop	-	80	22	347
Core K G coffee shop food prep	:50	80	12.74	332
Core K G hair dresser	2-2	80	22	1482
Core H G resindents lounge	-	80	22	296
Core H G resi meeting space	-	80	22	448
Core H G coffee shop kitchen	(m)	80	(m)	343
Core H G coffee shop	-	80	22	314
Core F G fitness centre	-	80	8 <u>0</u> 8	430
Core D G nursery	80	-	-	781

Criterion 3: The spaces in the building should have appropriate passive control measures to limit solar gains

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Core A LG restaurant dining	N/A	N/A
Core B LG supermarket display	N/A	N/A
Core B LG supermarket store	N/A	N/A
Core P G maintenance office	NO (-60%)	YES
Core P G concierge	NO (-67%)	YES
Core P G retail	NO (-51%)	YES
Core M G workshare hub	NO (-73%)	YES
Core M G dry cleaner	NO (-49%)	YES
Core K G coffee shop	NO (-22%)	YES
Core K G hair dresser	NO (-37%)	YES
Core H G resindents lounge	NO (-57%)	YES
Core H G resi meeting space	NO (-73%)	YES
Core H G coffee shop	NO (-78%)	YES

Page 7 of 12

Page 8 of 12

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Core F G fitness centre	NO (-78%)	YES
Core D G nursery	NO (-79%)	YES

Criterion 4: The performance of the building, as built, should be consistent with the calculated BER

Separate submission

Criterion 5: The necessary provisions for enabling energy-efficient operation of the building should be in place

Separate submission

EPBD (Recast): Consideration of alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	YES
Is evidence of such assessment available as a separate submission?	YES
Are any such measures included in the proposed design?	YES

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters			Building Use			
	Actual	Notional	% Area	Building Type		
vrea [m²]	20321	20321	5	A1/A2 Retail/Financ		
xternal area [m ²]	36219	36219	3	A3/A4/A5 Restaura		
Veather	LON	LON		B1 Offices and Wor		
nfiltration [m³/hm²@ 50Pa]	3	3		B8 Storage or Distrib		
verage conductance [W/K]	6333	8632	14	C1 Hotels		
verage U-value [W/m ² K]	0.17	0.24		C2 Residential Inst.:		
lpha value* [%]	4.55	4.55		C2 Residential Inst.: C2 Residential Inst.:		
Percentage of the building's average heat tran	sfer coefficient which is due to thermal bridging			C2A Secure Residen		
			6	Residential spaces		

	B2 to B7 General Industrial and
	B8 Storage or Distribution
14	C1 Hotels
	C2 Residential Inst.: Hospitals a
	C2 Residential Inst.: Residential
	C2 Residential Inst.: Universities
	C2A Secure Residential Inst.
6	Residential spaces
	D1 Non-residential Inst.: Commu
	D1 Non-residential Inst.: Librarie
1	D1 Non-residential Inst.: Educ
	D1 Non-residential Inst.: Primary
	D1 Non-residential Inst.: Crown
1	D2 General Assembly and Leis
	Others: Passenger terminals
	Others: Emergency services
	Others: Miscellaneous 24hr activ
71	Others: Car Parks 24 hrs

Energy	Consumption	by End	llse	kWh/m ² 1
Litergy	Consumption	by Linu	036	

	Actual	Notional
Heating	10.54	6.47
Cooling	2.51	3.1
Auxiliary	1.24	1.27
Lighting	17.42	20.81
Hot water	6.32	3.13
Equipment*	11.58	11.58
TOTAL**	32.05	34.77

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

			en an
Enorall	Draduation	by Toobpo	loon [k/M/h/m2]
Enerov	Production	DV LECHIIO	ισαν ικντι/π/

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	5.98	0
Solar thermal systems	0	0

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	62.21	62.35
Primary energy* [kWh/m ²]	67.21	87.07
Total emissions [kg/m ²]	11.5	14.8

* Primary energy is net of any electrical energy displaced by CHP generators, if applicable.

Page 9 of 12

cial and Professional services ants and Cafes/Drinking Est./Takeaways

kshop businesses

strial and Special Industrial Groups

spitals and Care Homes

sidential schools

iversities and colleges

: Community/Day Centre : Libraries, Museums, and Galleries t.: Education

: Primary Health Care Building

Crown and County Courts

and Leisure, Night Clubs and Theatres inals

vices

24hr activities

Others - Stand alone utility block

Page 10 of 12

ŀ	IVAC Sys	tems Per	rformanc	е						
Sys	stem 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] No Heatin	g or Coolin	g							
	Actual	13.1	0	8.5	0	1.7	0.43	0	0.45	0
	Notional	10.2	0	3.4	0	2.3	0.82	0		
[ST] No Heatin	g or Coolin	g	· · ·	5 0		N			
	Actual	0	0	0	0	20.1	0	0	0	0
	Notional	0	0	0	0	22.4	0	0		
[ST] Central he	eating using	g water: rad	liators, [HS]	LTHW boi	ler, [HFT] N	atural Gas,	[CFT] Elec	tricity	
	Actual	19.5	0	12.7	0	3.5	0.43	0	0.45	0
	Notional	27.3	0	9.2	0	5.3	0.82	0		
[ST] No Heatin	g or Coolin	g							
	Actual	0	0	0	0	0	0	0	0	0
	Notional	0	0	0	0	0	0	0		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		6 5
	Actual	2.3	731.1	1.5	42.8	12.2	0.43	4.75	0.45	5
	Notional	17	682.4	5.8	52.7	10.6	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		
	Actual	2.4	230.4	1.6	13.5	4.4	0.43	4.75	0.45	5
	Notional	6.4	200	2.2	15.4	4.4	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		
	Actual	1.4	105.5	0.9	6.2	6.9	0.43	4.75	0.45	5
	Notional	8.7	102.5	2.9	7.9	6	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		
	Actual	0	81.8	0	4.8	28.9	0	4.75	0	5
	Notional	3	80.9	1	6.2	25.1	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		
	Actual	3	238.1	1.9	13.9	4.4	0.43	4.75	0.45	5
	Notional	8.7	175.3	3	13.5	3.8	0.82	3.6		
[ST] Split or m	ulti-split sy	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas,	CFT] Electi	icity		and the f
	Actual	0.1	297.5	0.1	17.4	6.8	0.43	4.75	0.45	5
	Notional	4.8	244.4	1.6	18.9	5.9	0.82	3.6		
IST	1 Split or m	ulti-split sv	stem. [HS]	LTHW boile	er. [HFT] Na	tural Gas. I	CFT1 Electr	icity		
	Actual	93	204.3	6.1	12	5	0.43	4 75	0.45	5
	Notional	26.5	156.8	9	12.1	44	0.82	3.6		
[ST] Split or m	ulti-split sv	stem, [HS]	LTHW boile	er, [HFT] Na	tural Gas. I	CFT] Electi	icity		
	Actual	12.1	528.1	7.9	30.9	4.3	0.43	4.75	0.45	5
	Notional	13.9	537.9	47	41.5	3.8	0.40	3.6		
IST	1 No Heatin	a or Coolin	a		11.0	0.0	5.0L	0.0	100000	- More IV
101	Actual	143.4	0	93.2	0	0	0.43	0	0.45	0
	Notional	161.7	0	54.9	0	0	0.40	0	0.40	0
	Notional	101./	0	34.0	0	0	0.02	0		

Key Features

The BCO can give particular attention to items with specifications that are better than typically expected.

Building fabric Element Ui-Typ Ui-Min Surface where the m Wall 0.23 0.18 External Wall Floor 0.2 0.16 Exposed Floor Roof 0.15 0.13 Roof Windows, roof windows, and rooflights 1.5 1.41 Curtain wall FX Personnel doors 1.5 No personal doors in p -Vehicle access & similar large doors 1.5 No vehicle doors in pro High usage entrance doors 1.5 No high usage entrand Ui-Typ = Typical individual element U-values [W/(m²K)] Ui-Min = Minimum individual * There might be more than one surface where the minimum U-value occurs.

Air Permeability	Typical value	This build
m³/(h.m²) at 50 Pa	5	3

		-	-		
~	011	10	10	H BOO	
	HV				

- 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]
 = Cooling energy consumption

 Heat SSEFF
 = Heating system seasonal efficiency (for notional building, value depends on activity glazing class)

 Cool gen SSEER
 = Cooling generator seasonal energy efficiency ratio

 Heat gen SSEFF
 = Heating generator seasonal energy efficiency ratio

 ST
 = System type

Page 11 of 12

minimum value occurs*	
n project	
project	
ance doors in project	
al element U-values [W/(m²K)]	
dina	

Page 12 of 12

11.2 SAP Compliance Calculations

As a part of our BS EN ISO 14001 accreditation, we make a conscious effort to reduce the amount of printing and therefore reduce our carbon impact on the environment. For this reason, we have included a summary of all SAP results in this appendix. However, we are happy to provide all DER and TER worksheets as hard copies on request.

Dwe	elling		Lear	ı		Clean	G	Green		FEE			sp
Unit	Area	TER	DER	% variance	DER	% variance	DER	% variance	Overheating compliance	TFEE	DFEE	% variance	Unregulated load
1A1	87.5	18.8	20.1	6.8%	12.3	-34.8%	11.1	-40.8%	Y	58.9	63.4	7.6%	18.0
1A2	87.5	17.8	17.6	-1.1%	11.0	-38.3%	9.8	-44.7%	Y	52.0	52.3	0.6%	18.0
1B1	87.5	16.5	16.5	-0.2%	10.3	-37.4%	9.2	-44.2%	Y	47.2	49.3	4.4%	18.0
1B2	87.5	15.4	13.5	-12.1%	8.8	-42.9%	7.6	-50.2%	Y	39.7	36.2	-8.8%	18.0
1C1	87.5	18.8	20.2	7.5%	12.3	-34.4%	11.2	-40.4%	Y	58.9	63.9	8.5%	18.0
1C2	87.5	17.8	17.7	-0.2%	11.0	-37.9%	9.9	-44.2%	Y	52.0	52.9	1.7%	18.0
2A1	50.9	21.1	21.4	1.3%	13.0	-38.3%	11.1	-47.5%	Y	56.1	59.4	5.9%	20.6
2B1	50.9	18.7	17.4	-6.9%	10.9	-41.8%	9.0	-52.1%	Y	43.8	43.8	0.0%	20.6
2C1	50.9	21.1	21.6	2.0%	13.1	-37.9%	11.2	-47.1%	Y	56.1	60.0	7.0%	20.6
3A1	74.3	20.2	21.1	4.1%	12.8	-36.6%	11.5	-43.2%	Y	62.0	64.2	3.5%	18.9
3B1	74.3	17.9	17.1	-4.3%	10.7	-40.1%	9.4	-47.5%	Y	50.1	49.1	-2.0%	18.9
3C1	74.3	20.2	21.2	4.8%	12.9	-36.2%	11.6	-42.8%	Y	62.0	64.7	4.4%	18.9
4A1	56.6	20.0	21.1	5.3%	12.8	-35.8%	11.1	-44.5%	Y	53.4	60.0	12.4%	20.1
5A1	91.8	16.4	16.0	-2.2%	10.1	-38.2%	9.0	-44.7%	Y	45.6	47.2	3.5%	17.7
5B1	91.8	14.0	12.1	-13.4%	8.0	-42.5%	6.9	-50.2%	Y	33.4	31.3	-6.3%	17.7
5C1	91.8	16.4	16.1	-1.3%	10.2	-37.7%	9.1	-44.2%	Y	45.6	47.8	4.8%	17.7
6A1	87.3	18.2	18.0	-0.7%	11.2	-38.1%	10.1	-44.3%	Y	53.4	54.5	2.1%	18.0
7A1	72.2	18.8	21.4	13.8%	13.0	-30.8%	11.7	-38.0%	Y	54.1	68.6	26.8%	19.0
7A2	72.2	18.0	20.1	11.5%	12.3	-31.7%	10.9	-39.3%	Y	49.9	63.4	27.1%	19.0
7B1	72.2	16.5	18.2	10.3%	11.3	-31.5%	10.0	-39.8%	Y	42.4	56.3	32.8%	19.0
7B2	72.2	15.8	17.0	8.0%	10.7	-32.3%	9.3	-41.0%	Y	38.4	51.3	33.6%	19.0
7C1	72.2	18.8	21.5	14.5%	13.1	-30.4%	11.7	-37.7%	Y	54.1	69.1	27.7%	19.0
7C2	72.2	18.0	20.2	12.1%	12.4	-31.3%	11.0	-38.9%	Y	49.9	63.8	27.9%	19.0
8A1	51.1	20.1	20.0	-0.7%	12.3	-39.0%	10.3	-48.6%	Y	51.2	53.9	5.3%	20.6
8A2	51.1	22.0	22.8	3.5%	13.8	-37.4%	11.8	-46.2%	Y	60.8	64.7	6.4%	20.6
8B1	51.1	17.8	16.1	-9.1%	10.2	-42.5%	8.3	-53.3%	Y	39.0	38.4	-1.5%	20.6
8C1	51.1	20.1	20.1	0.0%	12.4	-38.6%	10.4	-48.2%	Y	51.2	54.5	6.4%	20.6
8C2	51.1	22.0	22.9	4.2%	13.9	-37.1%	11.9	-45.8%	Y	60.8	65.2	7.2%	20.6
9A1	87.8	18.1	18.7	3.0%	11.5	-36.5%	10.4	-42.7%	Y	55.7	57.5	3.2%	17.9
9B1	87.8	15.9	14.9	-6.4%	9.5	-40.4%	8.4	-47.4%	Y	44.2	42.6	-3.6%	17.9
9C1	87.8	18.1	18.8	3.7%	11.6	-36.1%	10.5	-42.3%	Y	55.7	58.0	4.1%	17.9

10A1	89.6	17.1	16.5	-3.6%	10.4	-39.2%	9.3	-45.6%	Y	48.5	48.7	0.4%	17.8
10B1	89.6	14.6	12.3	-15.5%	8.2	-44.0%	7.1	-51.5%	Y	35.8	32.2	-10.1%	17.8
10C1	89.6	17.1	16.7	-2.7%	10.5	-38.7%	9.4	-45.1%	Y	48.5	49.3	1.6%	17.8
11A1	67.0	19.9	19.9	0.1%	12.2	-38.6%	10.8	-46.0%	Y	56.3	57.6	2.3%	19.4
11B1	67.0	17.4	15.7	-9.9%	10.0	-42.8%	8.5	-51.3%	Y	43.7	41.2	-5.7%	19.4
11C1	67.0	19.9	20.1	0.9%	12.3	-38.2%	10.8	-45.6%	Y	56.3	58.2	3.4%	19.4
12A1	73.3	19.5	19.9	2.2%	12.2	-37.3%	10.9	-44.2%	Y	57.9	59.3	2.4%	19.0
12B1	73.3	17.2	16.1	-6.6%	10.2	-40.9%	8.8	-48.8%	Y	46.2	44.2	-4.3%	19.0
12C1	73.3	19.5	20.1	2.9%	12.3	-36.9%	11.0	-43.8%	Y	57.9	59.8	3.3%	19.0
13A1	90.6	18.4	18.7	1.7%	11.5	-37.4%	10.4	-43.3%	Y	57.5	58.0	0.9%	17.7
13B1	90.6	16.1	14.8	-8.1%	9.4	-41.4%	8.3	-48.2%	Y	45.7	42.8	-6.3%	17.7
13C1	90.6	18.4	18.8	2.5%	11.6	-36.9%	10.5	-42.9%	Y	57.5	58.6	1.9%	17.7
14A1	74.3	18.6	18.3	-1.5%	11.4	-38.9%	10.0	-46.0%	Y	53.5	53.7	0.4%	18.9
14B1	74.3	16.3	14.4	-11.6%	9.3	-43.1%	7.9	-51.3%	Y	41.5	38.1	-8.2%	18.9
14C1	74.3	18.6	18.5	-0.7%	11.4	-38.5%	10.1	-45.6%	Y	53.5	54.2	1.3%	18.9
15A1	65.8	20.1	20.3	0.9%	12.4	-38.3%	10.9	-45.8%	Y	58.2	59.4	2.1%	19.5
15B1	65.8	17.8	16.3	-8.4%	10.2	-42.3%	8.7	-50.7%	Y	46.1	43.6	-5.4%	19.5
16A1	103.4	18.0	18.1	0.4%	11.1	-38.1%	10.2	-43.4%	Y	57.9	58.4	0.9%	16.8
16B1	103.4	15.6	13.9	-10.7%	8.9	-42.8%	8.0	-48.9%	Y	45.7	42.4	-7.2%	16.8
17A1	61.5	19.9	19.8	-0.5%	12.2	-38.9%	10.6	-46.9%	Y	54.7	56.2	2.7%	19.8
17B1	61.5	17.5	15.7	-10.2%	10.0	-43.0%	8.4	-52.2%	Y	42.4	40.2	-5.2%	19.8
17C1	61.5	19.9	20.0	0.3%	12.3	-38.5%	10.7	-46.5%	Y	54.7	56.8	3.8%	19.8
18A1	98.9	18.2	19.2	5.4%	11.8	-35.5%	10.8	-40.9%	Y	58.8	62.0	5.4%	17.1
18B1	98.9	15.8	15.4	-2.5%	9.7	-38.5%	8.7	-44.8%	Y	46.9	47.4	1.1%	17.1
18C1	98.9	18.2	19.4	6.2%	11.8	-35.1%	10.8	-40.5%	Y	58.8	62.5	6.3%	17.1
19A1	59.3	18.8	18.3	-2.3%	11.4	-39.4%	9.7	-48.2%	Y	47.8	48.9	2.3%	19.9
19B1	59.3	16.5	14.6	-11.5%	9.4	-43.1%	7.7	-53.2%	Y	35.8	33.2	-7.3%	19.9
19C1	59.3	18.8	18.5	-1.5%	11.5	-38.9%	9.8	-47.8%	Y	47.8	49.5	3.6%	19.9
20A1	89.5	16.1	15.5	-3.9%	9.9	-38.8%	8.8	-45.6%	Y	43.5	44.8	3.0%	17.8
20B1	89.5	13.7	11.6	-15.1%	7.8	-43.0%	6.7	-51.0%	Y	31.1	28.6	-8.0%	17.8
20C1	89.5	16.1	15.6	-3.0%	10.0	-38.3%	8.9	-45.1%	Υ	43.5	45.4	4.4%	17.8
21A1	46.2	21.8	22.0	1.1%	13.4	-38.5%	11.3	-48.3%	Y	55.1	58.7	6.5%	21.0
21B1	46.2	19.4	18.0	-7.1%	11.3	-41.9%	9.1	-52.9%	Y	43.0	42.9	-0.2%	21.0
21C1	46.2	21.8	22.1	1.8%	13.5	-38.1%	11.3	-47.9%	Y	55.1	59.2	7.4%	21.0
22A1	97.8	16.8	17.2	2.2%	10.7	-36.5%	9.7	-42.5%	Y	51.7	53.5	3.5%	17.2
22A2	97.8	16.4	16.4	0.0%	10.3	-37.5%	9.3	-43.6%	Y	49.6	50.2	1.2%	17.2
22B1	97.8	14.6	13.6	-6.4%	8.8	-39.7%	7.8	-46.7%	Y	40.2	39.3	-2.2%	17.2
22B2	97.8	14.2	12.7	-10.5%	8.3	-41.6%	7.2	-48.8%	Y	38.0	35.0	-7.9%	17.2
22C1	97.8	16.8	17.3	3.0%	10.8	-36.1%	9.7	-42.1%	Y	51.7	54.0	4.4%	17.2
22C2	97.8	16.4	16.6	0.9%	10.4	-37.0%	9.3	-43.1%	Y	49.6	50.8	2.4%	17.2
23B1	83.6	15.8	14.9	-5.6%	9.5	-39.8%	8.3	-47.3%	Y	42.3	42.1	-0.5%	18.2
24A1	117.1	17.6	19.3	9.6%	11.7	-33.3%	10.9	-38.1%	Y	59.5	66.0	10.9%	15.9

24B1	117.1	15.2	15.5	2.3%	9.7	-36.0%	8.9	-41.5%	Y	47.4	51.7	9.1%	15.9
24C1	117.1	17.6	19.4	10.4%	11.8	-32.9%	11.0	-37.7%	Υ	59.5	66.6	11.9%	15.9
25A1	40.6	21.5	21.5	0.1%	13.1	-38.9%	10.7	-50.2%	Υ	49.6	53.6	8.1%	21.8
25B1	40.6	19.3	18.1	-5.8%	11.3	-41.2%	8.9	-53.8%	Υ	38.0	39.4	3.7%	21.8
25C1	40.6	21.5	21.6	0.7%	13.2	-38.6%	10.8	-49.9%	Y	49.6	54.1	9.1%	21.8
26B1	98.3	16.2	15.3	-5.3%	9.7	-40.2%	8.7	-46.4%	Y	48.5	45.9	-5.4%	17.2
26C1	98.3	18.4	19.3	4.7%	11.8	-36.0%	10.8	-41.4%	Y	60.1	61.3	2.0%	17.2
27C1	62.8	18.9	19.4	2.8%	11.9	-36.8%	10.4	-45.1%	Y	50.8	54.2	6.7%	19.7
27B1	62.8	16.7	15.8	-5.0%	10.0	-39.8%	8.5	-49.2%	Y	39.4	39.8	1.0%	19.7
28C1	67.6	17.4	17.4	-0.1%	10.8	-37.7%	9.4	-46.1%	Y	44.7	48.1	7.6%	19.3

11.3 Overheating Results

11.3.1 Detailed Domestic Overheating Results for DSY1

Zone Name	Room Use	Orientation	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
Levels 01 to top	0						
A_BD_021	Bedroom	Inner	110	102	32	23	Pass
A_BD_02.2	Bedroom	Inner	110	99	32	17	Pass
A_BD_02 3	Bedroom	Inner	110	99	32	18	Pass
A_BD_02 4	Bedroom	Outer	110	623	32	111	Fail
A_BD_02 5	Bedroom	Outer	110	783	32	104	Fail
A_BD_02.6	Bedroom	Outer	110	677	32	138	Fail
<u>A_BD_027</u>	Bedroom	Outer	110	414	32	//	Fail
A_BD_02.8	Bedroom	Outer	110	325	32	63	Fail
A_BD_02.9	Bedroom	Outer	110	246	32	58	Fall
A_BS_021	Bedroom	Inner	II0	100	<u> </u>	25	Pass
A_LKI_021	Living Room / Kitchen	Inner	59	40	N/A	N/A	Pass
A_LK1_02.2	Living Room / Kitchen	Inner	59	40	N/A	N/A N/A	Pass
A_LKZ_021	Living Room / Kitchen	Inner	59	120	N/A	N/A N/A	Fass
A_LK3_021	Living Room / Kitchen	Outor	59	120	N/A	N/A N/A	Fall
B BD 021	Bedroom	Outer	110	37	32	45	Fail
B BD 022	Bedroom	Outer	110	22	32	31	Pass
B BD 023	Bedroom	Outer	110	36	32	38	Fail
B BD 024	Bedroom	Outer	110	154	32	64	Fail
B BD 025	Bedroom	Inner	110	131	32	10	Fail
B_BD_026	Bedroom	Inner	110	85	32	10	Pass
B_BD_027	Bedroom	Inner	110	86	32	7	Pass
B_BS_021	Bedroom	Inner	110	80	32	10	Pass
B_LK1_021	Living Room / Kitchen	Inner	59	37	N/A	N/A	Pass
B_LK1_02 2	Living Room / Kitchen	Inner	59	53	N/A	N/A	Pass
B_LK2_021	Living Room / Kitchen	Inner	59	116	N/A	N/A	Fail
B_LK2_02 2	Living Room / Kitchen	Inner	59	38	N/A	N/A	Pass
B_LK2_02 3	Living Room / Kitchen	Inner	59	114	N/A	N/A	Fail
C_BD_021	Bedroom	Inner	110	57	32	9	Pass
C_BD_02 2	Bedroom	Inner	110	43	32	12	Pass
C_BD_02 3	Bedroom	Inner	110	44	32	7	Pass
C_BD_02.4	Bedroom	Outer	110	51	32	4/	Fail
C_BD_02.5	Bedroom	Outer	110	28	32	38	Fail
C_BD_02.6	Bedroom	Outer	110	22	32	31	Pass Fail
C_BD_027	Bedroom	Innor	110	40	32	42	Parr
C_B3_021	Living Room / Kitchen	Inner	59	26	52 N/A		Pass
C LK1 02 2	Living Room / Kitchen	Inner	59	25	Ν/Α		Pass
C LK2 021	Living Room / Kitchen	Inner	59	34	N/A	N/A	Pass
C K2 02 2	Living Room / Kitchen	Inner	59	26	N/A	N/A	Pass
C LK2 02 3	Living Room / Kitchen	Inner	59	33	N/A	N/A	Pass
D BD 021	Bedroom	Outer	110	24	32	35	Fail
D_BD_0210	Bedroom	Inner	110	33	32	8	Pass
D_BD_02 11	Bedroom	Inner	110	169	32	9	Fail
D_BD_0212	Bedroom	Inner	110	54	32	11	Pass
D_BD_02 13	Bedroom	Inner	110	76	32	9	Pass
D_BD_0214	Bedroom	Inner	110	144	32	8	Fail
D_BD_02.2	Bedroom	Outer	110	24	32	36	Fail
D_BD_023	Bedroom	Outer	110	28	32	41	Fail
D_BD_02.4	Bedroom	Outer	110	18	52	29	Pass
D_BD_02.5	Bedroom	Outer	110	52	32	56	Fall
	Bedroom	lanor	110	44	<u> </u>	50	Fall
	Bedroom	Inner	110	45	<u>32</u> 72	14	Fail
D BD 020	Bedroom	Inner	110	30	3∠ 32	10	Pass
D BS 021	Bedroom	Inner	110	178	32	14	Fail
D LK1 021	Living Room / Kitchen	Outer	59	16	N/A	N/A	Pass
D [K1 02 2	Living Room / Kitchen	Inner	59	46	N/A	N/A	Pass
D LK1 02 3	Living Room / Kitchen	Inner	59	23	N/A	N/A	Pass
D_LK2 021	Living Room / Kitchen	Outer	59	29	N/A	N/A	Pass
D_LK2_02 2	Living Room / Kitchen	Inner	59	54	N/A	N/A	Pass
D_LK2_02 3	Living Room / Kitchen	Inner	<u>5</u> 9	51	N/A	N/A	Pass
D_LK3_021	Living Room / Kitchen	Outer	59	31	N/A	N/A	Pass
D_LK3_02 2	Living Room / Kitchen	Inner	59	44	N/A	N/A	Pass
E_BD_021	Bedroom	Inner	110	48	32	7	Pass
E_BD_02.2	Bedroom	Outer	110	47	32	43	Fail
E_BD_023	Bedroom	Outer	110	31	32	45	Fail
E_LK1_021	Living Room / Kitchen	Inner	59	27	N/A	N/A	Pass
E_LK2_021	Living Room / Kitchen	Inner	59	35	N/A	N/A	Pass
G_BD_021	Bedroom	Inner	110	31	32	8	Pass

	Bedroom	Inner	110	77	32	Q	Dace
C 1 1/2 02 1				10	52		Fass
	Living Room / Kitchen	Inner	59	16	N/A	N/A	Pass
I_BD_021	Bedroom	Inner	110	23	32	7	Pass
L BD 022	Bedroom	Inner	110	30	32	10	Pass
	Dedreem	Inner	110	80	72	7	Dees
I_BD_02.3	Bedroom	Inner	IIO	80	32	/	Pass
I_BD_02 4	Bedroom	Outer	110	79	32	37	Fail
L BD 02.5	Bedroom	Outer	110	47	32	28	Pass
	Dedroom	Outer	110		32	20	Daaa
I_BD_02.6	Bedroom	Outer	110	29	32	25	Pass
I BD 027	Bedroom	Outer	110	32	32	27	Pass
	Living Room / Kitchen	Inner	59	73	Ν/Δ	Ν/Δ	Fail
			50	75			Deer
I_LK2_02 I	Living Room / Kitchen	Inner	59		N/A	N/A	Pass
I LK2 02 2	Living Room / Kitchen	Inner	59	26	N/A	N/A	Pass
	Living Poom / Kitchen	Inner	59	26	N/A	N/A	Dace
02 3	Elving Room / Ritchen		55	20	N/A	11/A	F 033
	Bedroom	Inner	110	70	32	/	Pass
J BD 0210	Bedroom	Outer	110	158	32	59	Fail
L BD 02 11	Bedroom	Outer	110	74	32	30	Eail
<u> </u>	Bedroom	Outer	110	74	52	55	1 011
	Bedroom	Inner	110	30		10	Pass
J BD 023	Bedroom	Inner	110	46	32	8	Pass
	Padroom	Innor	110	96	70	7	Dacc
	Bedroom	iiiiiei	110	80	32	/	Fass
	Bedroom	Inner	110	42		11	Pass
J BD 026	Bedroom	Outer	110	85	32	50	Fail
	Bedroom	Outor	110	116	30	57	Eail
	Bedroom	Outer	110	110	52	57	
	Bedroom	Outer	110	187		60	Fail
J BD 029	Bedroom	Outer	110	67	32	58	Fail
	Living Room / Kitchen	Inner	50	71	Ν/Λ	NI/A	Pacc
			55	51	1N/ A	1N/A	F (135)
J_LK2_021	Living Room / Kitchen	Inner	59	25	N/A	N/A	Pass
J LK2 022	Living Room / Kitchen	Inner	59	25	N/A	N/A	Pass
	Living Room / Kitcher	Inner	50	<u></u>	Ν/Λ	NI/A	Pacc
J_LNJ_U21	Living Room / Kitchen		29	52	IN/A	IN/A	rass
	Living Room / Kitchen	Inner	59	23	N/A	N/A	Pass
K BD 021	Bedroom	Outer	110	518	32	142	Fail
	Redroom	Outor	110	165	70	111	Eail
n_bu_u22	Bedroom	Outer	IIU	100	32	111	Fall
K_BD_02 3	Bedroom	Outer	110	229	32	132	Fail
K BD 024	Bedroom	Outer	110	907	32	188	Fail
K PD 025	Bodroom	Innor	110	179	72	9	Epil
К_ <u>Б</u> D_02 5	Bedroom	Inner	110	130	32	9	Fall
K_BD_02.6	Bedroom	Inner	110	93	32	9	Pass
K BD 027	Bedroom	Inner	110	187	32	9	Fail
K DC 021	Dedreem	laner	110	00	70	0	Deee
K_B3_021	Bedroom	Inner	IIO	00	32	0	PdSS
K_LK1_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
K K1 02 2	Living Room / Kitchen	Inner	59	88	N/A	N/A	Fail
K_LK2_021	Living Deem / Kitchen	Inner	50	70		NI/A	T all
<u> </u>	Living Room / Kitchen	Inner	59	12	IN/A	IN/A	Fall
K_LK2_02 2	Living Room / Kitchen	Inner	59	82	N/A	N/A	Fail
K K2 02 3	Living Room / Kitchen	Inner	59	132	N/A	N/A	Fail
	Bodroom	Outor	110	640	70	92	Fail
	Bedroom	Outer	110	649	52	82	Fall
L_BD_02 2	Bedroom	Outer	110	303	32	75	Fail
L_BD_022	Bedroom Bedroom	Outer Outer	110 110	303 361	32 32	75 89	Fail Fail
L_BD_022 L_BD_023	Bedroom Bedroom	Outer Outer	110 110	303 361	32 32 72	75 89	Fail Fail
L_BD_02 2 L_BD_02 3 L_BD_02 4	Bedroom Bedroom Bedroom	Outer Outer Outer	110 110 110	303 361 863	32 32 32	75 89 99	Fail Fail Fail
L_BD_02 2 L_BD_02 3 L_BD_02 4 L_LK2_02 1	Bedroom Bedroom Bedroom Living Room / Kitchen	Outer Outer Outer Inner	110 110 110 59	303 361 863 62	32 32 32 N/A	75 89 99 N/A	Fail Fail Fail Fail
L_BD_022 L_BD_023 L_BD_024 L_LK2021	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner	110 110 110 59 59	303 361 863 62 58	32 32 32 N/A N/A	75 89 99 N/A N/A	Fail Fail Fail Fail Pass
L_BD_022 L_BD_023 L_BD_024 L_LK2_021 L_LK2_022	Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Inner	110 110 110 59 59	303 361 863 62 58 76	32 32 32 N/A N/A 72	75 89 99 N/A N/A	Fail Fail Fail Fail Pass
L_BD_022 L_BD_023 L_BD_024 L_LK2_021 L_LK2_022 M_BD_021	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Outer Inner Inner Outer	110 110 110 59 59 110	303 361 863 62 58 36	32 32 32 N/A N/A 32	75 89 99 N/A N/A 44	Fail Fail Fail Pass Fail
L_BD_022 L_BD_023 L_BD_024 L_LK2_021 L_LK2_022 M_BD_021 M_BD_0210	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	Outer Outer Inner Inner Outer Inner	110 110 59 59 110 110	303 361 863 62 58 36 104	32 32 N/A N/A 32 32 32	75 89 99 N/A N/A 44 16	Fail Fail Fail Fail Pass Fail Pass
L BD 022 L BD 023 L BD 024 L LK2 021 L LK2 022 M BD 021 M BD 0210 M BD 0211	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom	Outer Outer Outer Inner Outer Inner Inner	110 110 59 59 110 110 110	303 361 863 62 58 36 104 43	32 32 N/A N/A 32 32 32 32	75 89 99 N/A N/A 44 16 14	Fail Fail Fail Pass Fail Pass Pass
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom	Outer Outer Outer Inner Outer Inner Inner Outer	110 110 59 59 110 110 110 110	303 361 62 58 36 104 43	32 32 N/A N/A 32 32 32 32 32	75 89 N/A N/A 44 16 14 20	Fail Fail Fail Pass Fail Pass Pass Pass
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 M BD 02 1 M BD 02 10 M BD 02 11 M BD 02 12	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Outer Inner Inner Outer Outer	110 110 59 59 110 110 110 110	303 361 863 62 58 36 104 43 18	32 32 N/A N/A 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29	Fail Fail Pass Fail Pass Pass Pass Pass
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 12 M BD 02 2	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Inner Outer Outer Outer	110 110 59 59 110 110 110 110 110 110	303 361 62 58 36 104 43 18 46	32 32 N/A N/A 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53	Fail Fail Fail Pass Fail Pass Pass Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Outer Outer Inner Inner Outer Outer Outer Outer	110 110 59 59 110 110 110 110 110 110	303 361 863 62 58 36 104 43 18 46 45	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A 1/A 44 16 14 29 53 53	Fail Fail Fail Pass Fail Pass Pass Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Outer Inner Outer Outer Outer Outer Outer	110 110 59 59 110 110 110 110 110 110 110	303 361 863 62 58 36 104 43 18 46 45 19	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53	Fail Fail Pass Fail Pass Pass Pass Pass Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer	110 110 59 59 110 110 110 110 110 110 110 110	303 361 863 62 58 36 104 43 18 46 45 18 7 18	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Pass
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer	110 110 110 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	303 361 863 62 58 36 104 43 18 46 45 18 34	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A 16 14 29 53 53 30 45	Fail Fail Fail Pass Fail Pass Pass Fail Fail Pass Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Inner Outer Outer Outer Outer Outer Outer Outer	110 110 59 59 110 110 110 110 110 110 110 110 110 11	303 361 863 62 58 36 104 43 18 46 45 18 34 39	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 1 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 6	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 7 M BD 02 7	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 60	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 30 45 50 48 11	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 7 M BD 02 8	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 8 M BD 02 9	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 <u>43</u>	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 8 M BD 02 8 M BD 02 1	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A 16 14 29 53 53 30 45 50 48 11 11 N/A	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 1	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 70	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A	Fail Fail Fail Pass Fail Pass Pass Pass Fail Fail Fail Fail Fail Fail Fail Pass Pass Pass Pass Pass
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 1 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 6 M BD 02 7 M BD 02 9 M LK1 02 1	Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Outer	110 110 110 59 59 110 59 59 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 30 45 50 48 11 11 N/A N/A	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 2 M LK1 02 2 M LK1 02 3	Bedroom Bedroom Living Room / Kitchen Edroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner	110 110 110 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A	FailFailFailPassFailPassPassPassFail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 1 M LK1 02 4	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner	110 110 10 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Pass Fail Fail Fail Fail Fail Fail Fail Pass Pass Pass Pass Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 2 M LK1 02 4 M LK1 0	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Inner Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner	110 110 10 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 27	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A 16 14 29 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 1 M LK1 02 3 M LK1 02 4 M LK1 02 4	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner	110 110 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59	$\begin{array}{r} 303 \\ \hline 303 \\ \hline 361 \\ \hline 863 \\ \hline 62 \\ \hline 58 \\ \hline 36 \\ \hline 104 \\ \hline 43 \\ \hline 18 \\ \hline 46 \\ \hline 45 \\ \hline 18 \\ \hline 34 \\ \hline 39 \\ \hline 38 \\ \hline 69 \\ \hline 43 \\ \hline 15 \\ \hline 36 \\ \hline 61 \\ \hline 82 \\ \hline 25 \\ \end{array}$	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Pass Fail Fail Fail Fail Fail Fail Pass Pass Pass Pass Fail Fail Fail Pass Pass Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 1 M LK1 02 4 M LK2 02 1 M LK3 02 1	Bedroom Bedroom Living Room / Kitchen Edroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Outer	110 110 10 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 30	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 4 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 5 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 2 M LK1 02 3 M LK1 02 4 M LK2 02 1 M LK3 02 2	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner Inner Inner	110 110 110 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 30 45	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Pass Fail Fail <t< td=""></t<>
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 11 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 1 M LK1 02 4 M LK1 02 4 M LK2 02 1 M LK3 02 1	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner	110 110 10 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 30 45 72	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A	Fail Fail Fail Pass Fail Pass Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
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L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 4 M BD 02 4 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 5 M BD 02 6 M BD 02 7 M LK1 02 2 M LK1 02 4 M LK1 02 4 M LK1 02 4 M LK2 02 1 M LK1 02 2 M LK1 02 2 M BD 02 1 N BD 02 1 N BD 02 1 N BD 02 1 N BD 02 2 N BD 02 1 N BD 02 2 N BD 02 2 N BD 02 5 N BD 02 1 N BD 02 1 N BD 02 2 N BD 02 2 N BD 02 5 N BD 02 1 N BD 02 2 N BD 02 7 N LK2 02 1 N BD 02 6 N BD 02 7 N LK2 02 1 N LK2 02 1 N BD 02 7 N LK2 02 1 N BD 02 5 N BD 02 7 N LK2 02 1 N BD 02 7 N BD 02 7 N LK2 02 1 N BD 02 7 N B	Bedroom Bedroom Living Room / Kitchen Edroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Outer	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 30 45 72 41 34 94 117 216 92 25 47 30 23 45	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A N/A N/A	FailFailFailFailPassPassPassPassPassFailFailFailFailFailPass </td
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 1 M BD 02 1 M BD 02 1 M BD 02 1 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 3 M BD 02 3 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 9 M LK1 02 1 M LK1 02 2 M LK1 02 1 M LK1 02 2 M LK1 02 3 M LK1 02 3 M LK1 02 1 M LK3 02 1 M LK3 02 1 M LK3 02 1 M BD 02 5 N BD 02 4 N BD 02 5 N BD 02 6 N BD 02 7 N BD 02 5 N BD 02 7 N LK2 02 1 N BD 02 5 N BD 02 4 N BD 02 5 N BD 02 4 N BD 02 7 N LK2 02 1 N BD 02 5 N BD 02 4 N BD 02 7 N LK2 02 1 N LK2 02 1 N BD 02 4 N BD 02 5 N BD 02 4 N BD 02 7 N LK2 02 1 N LK2 02 1 N BD 02 5 N BD 02 4 N BD 02 7 N LK2 02 1 N BD 02 7 N LK2 02 1 N BD 02 4 N BD 02 7 N LK2 02 1 N BD 02 7 N B	Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Outer	110 110 10 59 59 110<	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 300 45 72 41 34 94 117 216 92 25 47 32 73 30 23 47 45	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 16 14 29 53 53 50 48 11 11 N/A 10 7 10 7 28 29	FailFailFailPailPassPassPassPassPassPassFail </td
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 1 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 3 M BD 02 3 M BD 02 4 M BD 02 4 M BD 02 5 M BD 02 5 M BD 02 5 M BD 02 5 M BD 02 7 M BD 02 9 M LK1 02 1 M LK1 02 4 M LK1 02 1 M LK1 02 1 M LK3 02 2 N BD 02 3 M BD 02 3 N BD 02 3 N BD 02 3 N BD 02 5 N BD 02 3 N BD 02 5 N BD 02 7 N BD 02 2 N BD 02 1 N BD 02 2 N BD 02 2 N BD 02 3 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 5 N BD 02 5 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 7 N LK3 02 1 N BD 02 5 N BD 02 5	Bedroom Bedroom Living Room / Kitchen Edroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Outer Inner Inner Inner Inner Inner Outer Inner	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 30 45 72 41 34 94 117 216 92 25 47 32 73 30 23 47 45 62	32 32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A N/A N/A	FailFailFailFailPassPassPassPassPassFailFassPassPassPassPassPassPassPassPassPassPassFail
L BD 02 2 L BD 02 3 L BD 02 4 L LK2 02 1 L LK2 02 2 M BD 02 10 M BD 02 10 M BD 02 10 M BD 02 12 M BD 02 2 M BD 02 2 M BD 02 4 M BD 02 4 M BD 02 4 M BD 02 5 M BD 02 6 M BD 02 7 M BD 02 8 M BD 02 9 M LK1 02 2 M LK1 02 3 M LK1 02 3 M LK1 02 4 M LK1 02 2 M LK1 02 2 N BD 02 1 M LK3 02 1 M LK3 02 1 M LK3 02 1 M BD 02 4 M BD 02 2 N BD 02 4 N BD 02 4 N BD 02 2 N BD 02 1 N BD 02 2 N BD 02 1 N BD 02 2 N BD 02 1 N BD 02 2 N BD 02 2 N BD 02 4 N BD 02 5 N BD 02 4 N BD 02 5 N BD 02 7 N LK2 02 1 N LK2 02 1 N LK2 02 1 N LK3 02 1 O BD 02 2 N BD 02 4 N BD 02 4 N BD 02 5 N BD 02 6 N BD 02 7 N LK2 02 1 N LK2 02 1 N LK2 02 1 N LK2 02 1 N BD 02 4 N BD 02 4 N BD 02 4 N BD 02 5 N BD 02 6 N BD 02 7 N LK2 02 1 N LK2 02 1 N LK3 02 1 O BD 02 2 O BD 02 3 O BD 02 4 O BD 02 5 O LK1 02 1 N LK2 02 1	Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner	110 110 110 59 59 110	303 361 863 62 58 36 104 43 18 46 45 18 34 39 38 69 43 15 36 61 82 25 300 45 72 41 34 94 92 25 47 32 73 30 23 47 45 62 23	32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32	75 89 99 N/A N/A 44 16 14 29 53 53 53 30 45 50 48 11 11 N/A N/A N/A N/A N/A N/A N/A N/A	FailFailFailFailPassPassPassPassPassFailFailFailFailFailPass

0_LK2_02.2	Linderer Deiner / Kitchener	lana ang	F0	10	NI/A	N1 / A	Deee
	Living Room / Kitchen	Inner	59	16	N/A	N/A	Pass
P BD 021	Bedroom	Outer	110	24	.32	20	Pass
	Deducera	Outor	110	20	70	77	F-31
P_BD_02.2	Bearoom	Outer	110	28	32		Fall
P BD 023	Bedroom	Outer	110	55	32	15	Pass
	Padroom	Innor	110	175	70	0	Epil
F_BD_02 4	Bedroom	i i i i e i	110	155	52		1 011
P_BD_02.5	Bedroom	Inner	110	63	32	8	Pass
P BD 026	Bedroom	Inner	110	172	32	9	Fail
D DD 007	Deducern	lanan	110		70	ő	Dese
P_BD_027	Bedroom	Inner	110	80	32	8	Pass
P BD 028	Bedroom	Outer	110	34	32	34	Fail
P BD 02 9	Bedroom	Outor	110	9	30	14	Dass
02_3		Outer	110		52	14	1 435
P_LK1_021	Living Room / Kitchen	Outer	59		N/A	N/A	Pass
P K1 02 2	Living Room / Kitchen	Inner	59	57	N/A	N/A	Pass
D 1 1/2 021	Living Deers / Kitchen	loner	50	4.4	NI/A	NI/A	Deee
P_LKZ_021	Living Room / Kitchen	Inner	59	44	IN/A	IN/A	Pass
P_LK2_02 2	Living Room / Kitchen	Inner	59	44	N/A	N/A	Pass
P K3 021	Living Room / Kitchen	Inner	59	128	N/A	N/A	Fail
<u> </u>	Dealus and	lanan	110	70	70	7	Pasa
R_BD_021	Bedroom	Inner	110	12	32	/	Pass
R_BD_0210	Bedroom	Outer	110	234	32	51	Fail
R BD 0211	Bedroom	Inner	110	68	32	9	Pass
<u></u>	Bedroom	i i i i e i	110	00	52	3	F 033
R_BD_02.2	Bedroom	Inner	110	30	32	10	Pass
R BD 023	Bedroom	Inner	110	73	32	9	Pass
D BD 02.4	Badroom	Innor	110	0E	70	0	Dass
<u>к_БD_024</u>	Bedroom	Inner	110	95	32	0	Pass
R_BD_02 5	Bedroom	Outer	110	56	32	47	Fail
R BD 026	Bedroom	Outer	110	172	32	61	Fail
	Podroom	Outor	110	00	70	<u> </u>	Tail
K_BD_027	Bearoom	Outer	IIU	99	52	68	⊢ali
R_BD_02 8	Bedroom	Outer	110	172	32	56	Fail
R BD 020	Bedroom	Outer	110	200	20	57	Eail
		Julei		203		J/	
R_LKI_021	Living Room / Kitchen	Inner	59	52	N/A	N/A	Pass
R LK2 021	Living Room / Kitchen	Inner	59	24	N/A	N/A	Pass
D K2 02 2	Living Poom / Kitchon	Inner	50	27	N/A	N/A	Pacc
R_LNZ_UZZ	LIVING ROUTH / KILCHEN		59	2/	IN/ A	IN/A	rd55
R_LK3_021	Living Room / Kitchen	Inner	59	26	N/A	N/A	Pass
R K3 02 2	Living Room / Kitchen	Inner	59	95	Ν/Δ	N/A	Fail
Ground							
Ground	5 -		11.0		70	50	E 11
ABD021	Bedroom	Inner	110	99		50	Fail
A BD 022	Bedroom	Inner	110	104	32	50	Fail
	Bedroom	Inner	110	98	30	45	Eail
A_BD_02.3	Bedroom	IIIIei	110	30	32	43	Fall
A_BD_02 4	Bedroom	Outer	110	621	32	110	Fail
A BD 025	Bedroom	Outer	110	780	.32	104	Fail
	Dedreem	Outor	110	675	70	177	T all
A_BD_02.6	Bedroom	Outer	110	6/5	32	157	Fall
A_BD_027	Bedroom	Outer	110	405	32	82	Fail
	Bedroom	Outer	110	319	32	63	Fail
<u>A_DD_02.0</u>	Bedroom		110	515	52	55	
A_BD_02.9	Bearoom	Outer	110	240	32	57	Fall
A BS 021	Bedroom	Inner	110	105	32	56	Fail
A K1 021	Living Boom / Kitchon	Innor	50	46	NI/A	NL/A	Bass
A_LRI_021	Living Room / Ritchen	IIIIei	53	ŧU	N/A	11/ 7	Fass
						/ .	_
A_LK1_02 2	Living Room / Kitchen	Outer	59	49	N/A	N/A	Pass
A_LK1_02.2	Living Room / Kitchen	Outer Outer	59 59	49 45	N/A N/A	N/A N/A	Pass Pass
A_LK1_02 2 A_LK2_02 1	Living Room / Kitchen Living Room / Kitchen	Outer Outer	59 59	49 45	N/A N/A	N/A N/A	Pass Pass
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer	59 59 59	49 45 120	N/A N/A N/A	N/A N/A N/A	Pass Pass Fail
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1 A_LK3_02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Outer	59 59 59 59 59	49 45 120 458	N/A N/A N/A N/A	N/A N/A N/A N/A	Pass Pass Fail Fail
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1 A_LK3_02 2 B_BD_02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Outer Outer Outer	59 59 59 59 59 110	49 45 120 458 34	N/A N/A N/A N/A 32	N/A N/A N/A N/A 45	Pass Pass Fail Fail Fail
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1 A_LK3_02 2 B_BD_02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Outer Outer Outer Inner	59 59 59 59 59 110	49 45 120 458 34	N/A N/A N/A N/A 32	N/A N/A N/A N/A 45	Pass Pass Fail Fail Fail
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1 A_LK3_02 2 B_BD_02 1 B_BD_02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	Outer Outer Outer Outer Inner Inner	59 59 59 59 110 110	49 45 120 458 34 23	N/A N/A N/A N/A 32 32	N/A N/A N/A N/A 45 34	Pass Pass Fail Fail Fail Fail
A_LK1_02 2 A_LK2_02 1 A_LK3_02 1 A_LK3_02 2 B_BD_02 1 B_BD_02 2 B_BD_02 2 B_BD_02 3	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner	59 59 59 110 110 110	49 45 120 458 34 23 36	N/A N/A N/A 32 32 32	N/A N/A N/A 45 34 40	Pass Pass Fail Fail Fail Fail Fail
A _ LK1_02_2 A _ LK2_02_1 A _ LK3_02_1 A _ LK3_02_2 B BD_02_1 B BD_02_2 B BD_02_2 B BD_02_4	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Outer Inner Inner Inner	59 59 59 110 110 110 110	49 45 120 458 34 23 36 149	N/A N/A N/A 32 32 32 32 32	N/A N/A N/A 45 34 40 69	Pass Pass Fail Fail Fail Fail Fail
A LK1 02 2 A LK2 02 1 A LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 3 B BD 02 4 D D 02 5	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Outer Inner Inner Inner	59 59 59 110 110 110 110 110	49 45 120 458 34 23 36 149	N/A N/A N/A 32 32 32 32 32	N/A N/A N/A 45 34 40 69	Pass Pass Fail Fail Fail Fail Fail Fail
A _ LK1_02 2 A _ LK2_02 1 A _ LK3_02 1 B _ BD_02 1 B _ BD_02 1 B _ BD_02 2 B _ BD_02 3 B _ BD_02 4 B _ BD_02 5	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner Inner Outer	59 59 59 110 110 110 110 110 110	49 45 120 458 34 23 36 149 123	N/A N/A N/A 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23	Pass Pass Fail Fail Fail Fail Fail Fail Fail Fail
A _ LK1 02 2 A _ LK2 02 1 A _ LK3 02 2 B _ BD 02 1 B _ BD 02 2 B _ BD 02 3 B _ BD 02 4 B _ BD 02 5 B _ BD 02 6	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner Outer Outer	59 59 59 110 110 110 110 110 110 110	49 45 120 458 34 23 36 149 123 84	N/A N/A N/A 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31	Pass Pass Fail Fail Fail Fail Fail Fail Pass
A LK1 02 2 A LK2 02 1 A LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 5 B BD 02 5 B BD 02 7	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110	49 45 120 458 34 23 36 149 123 84 80	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26	Pass Pass Fail Fail Fail Fail Fail Fail Pass Pass
A LK1 02 2 A LK2 021 A LK3 021 A LK3 02 2 B BD 02 2 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 5 B BD 02 6 B BD 02 6 B BD 02 7	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110	49 45 120 458 34 23 36 149 123 84 80	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 7	Pass Pass Fail Fail Fail Fail Fail Fail Pass Pass
A _ LK1 02 2 A _ LK2 02 1 A _ LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 4 B BD 02 5 B BD 02 6 B BD 02 7 B BS 02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	49 45 120 458 34 23 36 149 123 84 80 77	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 31	Pass Pass Fail Fail Fail Fail Fail Fail Pass Pass Pass
A LK1 02 2 A LK2 02 1 A LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 2 B BD 02 4 B BD 02 5 B BD 02 7 B BD 02 7 B BD 02 7 B BS 02 1 B LK1 02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen	Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	49 45 120 458 34 23 36 149 123 84 80 77 39	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 31 N/A	Pass Pass Fail Fail Fail Fail Fail Fail Pass Pass Pass Pass Pass
A LK1 02 2 A LK2 02 1 A LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 5 B BD 02 6 B BD 02 7 B BS 02 1 B LK1 02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59	49 45 120 458 34 23 36 149 123 84 80 77 39 53	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 31 N/A N/A	Pass Pass Fail Fail Fail Fail Fail Pass Pass Pass Pass Pass Pass
A _ LK1 02 2 A _ LK2 02 1 A _ LK3 02 2 B BD 02 1 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 4 B BD 02 6 B BD 02 7 B BS 02 1 B LK1 02 1 B _ LK1 02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59	49 45 120 458 34 23 36 149 123 84 80 77 39 53	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 31 N/A N/A N/A	Pass Pass Fail Fail Fail Fail Fail Pail Pass Pass Pass Pass Fais
A LK1 02 2 A LK2 021 A LK3 021 A LK3 022 B BD 02 2 B BD 02 2 B BD 02 3 B BD 02 4 B BD 02 5 B BD 02 6 B BD 02 7 B BS 02 7 B LK1 02 1 B LK1 02 2 B LK2 02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59	49 45 120 458 34 23 36 149 123 84 80 77 39 53 108	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A	N/A N/A N/A 45 34 40 69 23 31 26 31 N/A N/A N/A	Pass Pass Fail Fail Fail Fail Fail Pass Pass Pass Pass Pass Fail Fail
A _ LK1 02 2 A _ LK2 02 1 A _ LK3 02 2 B _ BD 02 1 B _ BD 02 2 B _ BD 02 3 B _ BD 02 4 B _ BD 02 4 B _ BD 02 6 B _ BD 02 6 B _ BD 02 7 B _ BS 02 1 B _ LK1 02 1 B _ LK1 02 2 B _ LK2 02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Outer Outer Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59	49 45 120 458 34 23 36 149 123 84 80 77 39 53 108 38	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 45 34 40 69 23 31 26 31 26 31 N/A N/A N/A N/A	Pass Pass Fail Fail Fail Fail Fail Pail Pass Pass Pass Pass Fail Pass
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		Outor	110	40	70	75	E ail
	Bearoom	Outer	110	48	32		Fall
D RD 028	Bedroom	Outer	110	125	32	45	Fail
	Dedicern	Outer	110	75	70	24	Deee
D_BD_02.9	Bedroom	Outer	110	35	32	24	Pass
D BS 021	Bedroom	Inner	110	139	32	40	Fail
D 11/1 02 1	Living Deens / Kitchen	Outor	50	10	NI/A	NI/A	Deee
	Living Room / Kitchen	Outer	59	16	N/A	N/A	Pass
D LK1 02 2	Living Room / Kitchen	Inner	59	46	N/A	N/A	Pass
D 1 1 1 0 2 7	Living Deers / Kitchen	Inner	50	27	NI/A	NI/A	Deee
D_LKI_02 3	Living Room / Kitchen	Inner	59	23	N/A	IN/A	PdSS
D LK2 021	Living Room / Kitchen	Inner	59	31	N/A	N/A	Pass
D 1 K2 02 2	Living Doom / Kitchon	Innor	FO	E D	NI/A	NI/A	Dace
D_LKZ_02 Z	Living Room / Kitchen	Inner	59	52	IN/A	IN/A	Pass
D LK2 023	Living Room / Kitchen	Inner	59	51	N/A	N/A	Pass
	Living Boom / Kitchon	Outor	50	71	NI/A	NI/A	Dacc
D_LK3_021	Living Room / Ritchen	Outer			IN/ A	IN/A	Fass
D_LK3_02 2	Living Room / Kitchen	Outer	59	46	N/A	N/A	Pass
	Padroom	Outor	110	10	70	24	Dacc
	Dedroom	Outer	110	40	52	24	F 033
E_BD_02 2	Bedroom	Inner	110	46	32	44	Fail
E BD 023	Bedroom	Inner	110	31	32	47	Fail
<u> </u>			50		52		
E_LKI_021	Living Room / Kitchen	Outer	59	31	N/A	N/A	Pass
E K2 021	Living Room / Kitchen	Inner	59	.37	N/A	N/A	Pass
			110	70	70		- 400 D
	Bedroom	Inner	110	36	32	23	Pass
G BS 021	Bedroom	Inner	110	.39	.32	24	Pass
		lanen	50	10		 N1/A	De
G_LKZ_021	Living Room / Kitchen	Inner	59	19	N/A	N/A	Pass
BD 021	Bedroom	Inner	110	22	32	12	Pass
	Badroom	Outor	110	77	70	20	Dace
БD02 Z	Bedroom	Outer	110		52	29	PdSS
I_BD_02 3	Bedroom	Outer	110	75	32	24	Pass
	Bedroom	Outer	110	77	70	70	Eail
	5 I		110		52	53	
I_BD_02 5	Bedroom	Outer	110	47	32	29	Pass
I RD 026	Bedroom	Outer	110	30	30	27	Pass
	Dealacea	lan	110				
I_BD_027	Bedroom	Inner	110	54	52	50	Pass
LK1 021	Living Room / Kitchen	Inner	59	69	N/A	N/A	Fail
		Inner	50	40	NI/A	NI/A	 De
I_LK2_021	LIVING ROOM / KITCHEN	inner	59	40	N/A	IN/A	Pass
LK2 02 2	Living Room / Kitchen	Inner	59	27	N/A	N/A	Pass
		Immer	50		NL/A	NI / A	De
I_LKZ_023	LIVING KOOM / KITCHEN	inner	59	51	N/A	IN/A	Pass
J_BD 021	Bedroom	Inner	110	68	32	16	Pass
L BD 0210	Badroom	Outor	110	166	70	60	Enil
J_00_0210	Dedroom	Julei	110	135	JZ	00	
J_BD_0211	Bedroom	Inner	110	73	32	42	Fail
	Bedroom	Inner	110	34	30	27	Dace
J_BD_02.2	Bedroom		110	54	32	27	F a 3 5
J_BD_02 3	Bedroom	Inner	110	45	32	28	Pass
	Bedroom	Outor	110	97	30	27	Dace
<u> </u>	Bedroom	Outer	110	05	52	27	F 033
J_BD_02.5	Bedroom	Inner	110	47		- 34	Fail
L BD 026	Bedroom	Inner	110	88	32	55	Fail
02_0	Bedroom		110	00	52	55	
	Bedroom	Outer	110	114		61	Fail
J BD 028	Bedroom	Inner	110	183	32	63	Fail
	Dedicern	la a a a	110	60	70	50	ган Г-Н
	Bearoom	Inner	110	69	32	59	Fall
J LK1 021	Living Room / Kitchen	Outer	59	.37	N/A	N/A	Pass
	Living Doom / Kitchon	Outor	FO	25		NI/A	Dass
J_LK2_021	Living Room / Kitchen	Outer	59	25	N/A	N/A	Pass
	Living Room / Kitchen Living Room / Kitchen	Outer Inner	59 59	25 26	N/A N/A N/A	N/A N/A	Pass Pass
J_LK2_021 J_LK2_022	Living Room / Kitchen Living Room / Kitchen	Outer Inner	59 59 59	25 26	N/A N/A N/A	N/A N/A	Pass Pass Pass
J_LK2_021 J_LK2_022 J_LK3_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner	59 59 59	25 26 55	N/A N/A N/A N/A	N/A N/A N/A	Pass Pass Pass
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Inner	59 59 59 59 59	25 26 55 23	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	Pass Pass Pass Pass Pass
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Inner Inner Inner	59 59 59 59 10	25 26 55 23 512	N/A N/A N/A N/A 32	N/A N/A N/A N/A	Pass Pass Pass Pass Pass Fail
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Inner Inner Inner	59 59 59 59 110	25 26 55 23 512	N/A N/A N/A N/A 32	N/A N/A N/A N/A 144	Pass Pass Pass Pass Fail
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_021 K_BD_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	Outer Inner Inner Inner Outer	59 59 59 59 110 110	25 26 55 23 512 149	N/A N/A N/A N/A 32 32	N/A N/A N/A N/A 144 112	Pass Pass Pass Pass Fail Fail
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	Outer Inner Inner Inner Outer Outer	59 59 59 59 110 110	25 26 55 23 512 149 229	N/A N/A N/A N/A 32 32 32	N/A N/A N/A N/A 144 112 135	Pass Pass Pass Pass Fail Fail Fail
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_022 K_BD_022 K_BD_022 K_BD_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer	59 59 59 110 110 110	25 26 55 23 512 149 229	N/A N/A N/A N/A 32 32 32 32	N/A N/A N/A N/A 144 112 135	Pass Pass Pass Pass Fail Fail Fail
J_LK2_021 J_LK2_022 J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_022 K_BD_023 K_BD_024	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Inner	59 59 59 110 110 110 110 110	25 26 55 23 512 149 229 891	N/A N/A N/A N/A 32 32 32 32 32	N/A N/A N/A 144 112 135 187	Pass Pass Pass Pass Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Inner Inner	59 59 59 110 110 110 110 110	25 26 55 23 512 149 229 891 132	N/A N/A N/A N/A 32 32 32 32 32 32 32	N/A N/A N/A N/A 144 112 135 187 24	Pass Pass Pass Pass Fail Fail Fail Fail Fail
J LK2 02 1 J LK2 02 2 J LK3 02 1 J LK3 02 2 K BD 02 1 K BD 02 2 K BD 02 3 K BD 02 4 K BD 02 5	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Inner Inner	59 59 59 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 70	Pass Pass Pass Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 021 J LK3 022 K BD 022 K BD 022 K BD 023 K BD 024 K BD 025 K BD 026	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Outer Inner Inner	59 59 59 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30	Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass
J LK2 021 J LK2 022 J LK3 021 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 027	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Inner Inner Inner Inner	59 59 59 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail
J LK2 021 J LK2 022 J LK3 021 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 026 K BD 027	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Inner Outer Outer Inner Inner Inner Inner	59 59 59 110 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28	Pass Pass Pass Fail Fail Fail Fail Fail Fail Fail Pass Fail Pass
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 026 K BD 027 K BD 027	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner	59 59 59 110 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 23 28	Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass
J LK2 02 1 J LK2 02 2 J LK3 02 1 J LK3 02 2 K BD 02 1 K BD 02 2 K BD 02 3 K BD 02 4 K BD 02 5 K BD 02 5 K BD 02 6 K BD 02 7 K BS 02 1 K LK1 02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen	Outer Inner Inner Outer Outer Outer Inner Inner Inner Inner Outer	59 59 59 10 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83 55	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A	Pass Pass Pass Fail Fail Fail Fail Fail Fail Pass Fail Pass Pass
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 026 K BD 027 K BD 027 K BS 021 K LK1 022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer	59 59 59 110 110 110 110 110 110 110 110 110 11	25 26 55 23 512 149 229 891 132 85 176 83 55 87	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A	Pass Pass Pass Pass Fail Fail Fail Fail Pass Fail Pass Pass Pass Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 025 K BD 027 K BS 021 K LK1 021 K LK1 022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer	59 59 59 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 23 28 N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Fail Pass Fail Pass Pass Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 022 K BD 022 K BD 022 K BD 024 K BD 024 K BD 025 K BD 026 K BD 027 K BD 027 K BS 021 K LK1 021 K LK1 022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer Outer	59 59 59 59 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A	N/A N/A N/A 144 112 135 187 24 30 23 23 28 N/A N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 026 K BD 027 K BD 027 K BS 021 K LK1 021 K LK1 021 K LK2 022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer Inner	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail
J LK2 02 1 J LK2 02 2 J LK3 02 1 J LK3 02 2 K BD 02 1 K BD 02 2 K BD 02 4 K BD 02 5 K BD 02 5 K BD 02 5 K BD 02 7 K BS 02 1 K LK1 02 1 K LK1 02 2 K LK2 02 1 K LK2 02 7	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer Outer Outer Inner	59 59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 026 K BD 026 K BD 027 K BD 027 K LK1 021 K LK1 022 K LK2 021 K LK2 022 K LK2 023	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer Outer Inner Inner	59 59 59 110 110 110 110 110 110 110 110 110 11	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126	N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail
J LK2 02 1 J LK2 02 2 J LK3 02 1 J LK3 02 2 K BD 02 2 K BD 02 3 K BD 02 4 K BD 02 4 K BD 02 5 K BD 02 6 K BD 02 7 K BS 02 1 K LK1 02 1 K LK1 02 1 K LK2 02 2 K LK2 02 3 L BD 02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	Outer Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer Outer Inner Inner Inner Inner	59 59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 022 K BD 022 K BD 023 K BD 024 K BD 024 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 022 K LK2 021 K LK2 022 K LK2 023 L BD 022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	Outer Inner Inner Outer Outer Outer Inner Inner Inner Inner Outer Outer Outer Outer Inner Inner Inner Inner Inner	59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59<	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A 77	Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 021 K LK2 022 K LK2 022 K LK2 022 K LK2 023 L BD 021 L BD 027	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer Outer Inner Inner Inner Inner	59 59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 762	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A 86 77	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 024 K BD 025 K BD 026 K BD 027 K BD 027 K BS 021 K LK1 021 K LK1 022 K LK2 021 K LK2 022 K LK2 023 L BD 023	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Outer Outer Outer Inner Inner Inner Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner	59 59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 362	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 32 32	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A 86 77 90	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 021 K LK1 021 K LK2 022 K LK2 022 K LK2 021 L BD 021 L BD 023 L BD 024	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Outer Outer Inner Inner Inner Inner Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Outer Inner	59 59 59 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59 59 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 362 856	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A 90 104	Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 022 K BD 023 K BD 024 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 021 K LK2 021 K LK2 021 K LK2 022 K LK2 021 L BD 022 L BD 022 L BD 023 L BD 023 L BD 024	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner	59 59 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 59 59 59 59 110 110 110 110 110 110 110 110 110	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 362 856	N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 32 32 32 N/A	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail
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J LK2 021 J LK2 022 J LK3 022 K BD 022 K BD 022 K BD 022 K BD 024 K BD 025 K BD 026 K BD 027 K BS 027 K BS 027 K BS 027 K LK1 021 K LK1 021 K LK2 022 K LK2 022 K LK2 022 K LK2 022 K LK2 022 K LK2 022 M BD 024 L BD 024 L LK2 022 M BD 0210 M BD 0210 M BD 0210 M BD 022 M BD 023 M BD 023 M BD 024 M BD 022 M	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroo	Outer Inner Inner Outer Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner Inner Inner Outer	59 59 59 59 110 </td <td>25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 362 856 61 60 366 104 44 20 45 45 18 34 40 63 45 15 37 58</td> <td>N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32</td> <td>N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>Pass Pass Pass Pass Pass Pass Pasil Fail Fail Fail Pass Fail Pass Fail Pass Fail Fail</td>	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 300 362 856 61 60 366 104 44 20 45 45 18 34 40 63 45 15 37 58	N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Pass Pass Pass Pass Pass Pass Pasil Fail Fail Fail Pass Fail Pass Fail Pass Fail Fail
J LK2 021 J LK2 022 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 024 K BD 025 K BD 026 K BD 026 K BD 027 K LK1 021 K LK1 022 K LK2 021 K LK2 021 L BD 023 L BD 024 L BD 022 K LK2 021 L BD 022 K LK2 021 L BD 022 M BD 022 M BD 021 L LK2 021 L LK2 021 L LK2 021 M BD 021 L BD 023 L BD 024 L LK2 021 M BD 022 M B	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedr	Outer Inner Inner Outer Outer Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Inner Inner Inner Inner Inner Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Outer Inner Inner Inner Inner Inner Inner Outer	59 59 59 59 110 </td <td>25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 646 300 362 856 61 60 366 104 44 20 45 45 18 34 40 40 63 45 15 37 58</td> <td>N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32</td> <td>N/A N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td> <td>Pass Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Fail Pass Fail Pass Fail Fail</td>	25 26 55 23 512 149 229 891 132 85 176 83 55 87 74 82 126 646 646 300 362 856 61 60 366 104 44 20 45 45 18 34 40 40 63 45 15 37 58	N/A N/A N/A N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A N/A 144 112 135 187 24 30 23 28 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Pass Pass Pass Pass Pass Fail Fail Fail Fail Fail Pass Fail Fail Pass Fail Pass Fail Fail
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M_LK3_02 2	Living Room / Kitchen	Inner	59	43	N/A	N/A	Pass
N_BD_021	Bedroom	Inner	110	68	32	16	Pass
N_BD_02 2	Bedroom	Inner	110	43	32	26	Pass
N_BD_02 3	Bedroom	Outer	110	39	32	34	Fail
N_BD_02 4	Bedroom	Outer	110	88	32	28	Pass
N_BD_02 5	Bedroom	Outer	110	117	32	53	Fail
N_BD_02 6	Bedroom	Outer	110	215	32	66	Fail
N_BD_02 7	Bedroom	Inner	110	91	32	60	Fail
N_LK2_021	Living Room / Kitchen	Inner	59	22	N/A	N/A	Pass
N_LK2_02 2	Living Room / Kitchen	Outer	59	43	N/A	N/A	Pass
N_LK3_021	Living Room / Kitchen	Inner	59	35	N/A	N/A	Pass
O_BD_021	Bedroom	Inner	110	70	32	16	Pass
O_BD_02 2	Bedroom	Inner	110	35	32	27	Pass
O_BD_02 3	Bedroom	Inner	110	25	32	15	Pass
O_BD_02.4	Bedroom	Inner	110	46	32	28	Pass
O_BD_02 5	Bedroom	Outer	110	44	32	31	Pass
0_LK1_021	Living Room / Kitchen	Inner	59	59	N/A	N/A	Pass
O_LK2_021	Living Room / Kitchen	Inner	59	23	N/A	N/A	Pass
O_LK2_02 2	Living Room / Kitchen	Inner	59	17	N/A	N/A	Pass
P_BD_021	Bedroom	Outer	110	23	32	21	Pass
P_BD_02.2	Bedroom	Outer	110	29	32	41	Fail
P_BD_02 3	Bedroom	Outer	110	58	32	33	Fail
P_BD_02 4	Bedroom	Inner	110	127	32	28	Fail
P_BD_02 5	Bedroom	Inner	110	61	32	24	Pass
P_BD_02.6	Bedroom	Inner	110	162	32	23	Fail
P_BD_02 /	Bedroom	Inner	110	/8	32	24	Pass
P_BD_02.8	Bedroom	Inner	110	32	32	38	Fail
P_BD_02.9	Bedroom	Inner	110	10	32	16	Pass
P_LKI_021	Living Room / Kitchen	Outer	59	35	N/A	N/A	Pass
P_LKI_02.2	Living Room / Kitchen	Outer	59	54	N/A	N/A	Pass
P_LK2_021	Living Room / Kitchen	Outer	59	42	N/A	N/A	Pass
P_LKZ_022	Living Room / Kitchen	Outer	59	40	N/A	N/A	Fass
P_LK3_021	Living Room / Kitchen	lppor	110	60	N/A 72	17	Pass
	Bedroom	Outor	110	220	32	17	Fass
R_BD_0210	Bedroom	Inner	110	65	32	27	Pass
R_BD_021	Bedroom	Inner	110	35	32	27	Pass
P BD 02 3	Bedroom	Inner	110	71	32	70	Fass
R_BD_02.3	Bedroom	Outer	110	90	32	30	Dass
R BD 025	Bedroom	Outer	110	56	32	49	Fail
R BD 02.6	Bedroom	Outer	110	168	32	63	Fail
R BD 027	Bedroom	Outer	110	99	32	69	Fail
R BD 02.8	Bedroom	Inner	110	163	32	57	Fail
R BD 029	Bedroom	Inner	110	194	32	58	Fail
R LK1 021	Living Room / Kitchen	Inner	59	37	N/A	N/A	Pass
R K2 021	Living Room / Kitchen	Inner	59	21	N/A	N/A	Pass
R LK2 02 2	Living Room / Kitchen	Inner	59	29	N/A	N/A	Pass
R LK3 021	Living Room / Kitchen	Inner	59	28	N/A	N/A	Pass
R K3 02 2	Living Room / Kitchen	Inner	59	90	Ν/Δ	Ν/Δ	Fail

Table 11.1 - Detailed overheating results for the domestic areas using the DSY1 weather data

11.3.2 Domestic Overheating Results DSY2 & DSY3

The results for the overheating assessment of the domestic areas using the London Heathrow DSY2 and DSY3, 2020s, high emissions, 50% percentile weather file are presented in the tables below.

	DSY2		DSY3	
	Fail	Pass	Fail	Pass
Ground				
Bedrooms				
Inner	100%	0%	100%	0%
Outer	100%	0%	100%	0%
Living rooms/Kitch	iens			
Inner	90%	10%	100%	0%
Outer	77%	23%	100%	0%
Levels 01 to top				
Bedrooms				
Inner	54%	46%	98%	2%
Outer	100%	0%	100%	0%
Living rooms/Kitch	iens			
Inner	83%	17%	100%	0%
Outer	77%	23%	100%	0%
Total	87%	13%	100%	0%

Table 11.2 - Overheating results for domestic areas using the DSY2 & DSY3 weather data

DSY2							
Zone Name	Room Use	Orientatio n	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
	Bodroom	Innor	110	172	70	51	Fail
A BD 02 2	Bedroom	Inner	110	132	32	47	Fall
A BD 02 3	Bedroom	Inner	110	126	32	50	Fail
A BD 024	Bedroom	Outer	110	556	32	145	Fail
A BD 025	Bedroom	Outer	110	709	32	137	Fail
A_BD_02 6	Bedroom	Outer	110	606	32	168	Fail
A_BD_02 7	Bedroom	Outer	110	354	32	123	Fail
A_BD_02.8	Bedroom	Outer	110	277	32	97	Fail
A_BD_02.9	Bedroom	Outer	110	234	32	94	Fail
A_BS_021	Bedroom	Inner	110	133	52 NI/A	50	Fall
$A_{LK1_{021}}$	Living Room / Kitchen	Inner	59	93	N/A N/A	N/A N/A	Fail
A LK2 021	Living Room / Kitchen	Inner	59	86	N/A	N/A	Fail
A_LK3_021	Living Room / Kitchen	Inner	59	135	N/A	N/A	Fail
A_LK3_02 2	Living Room / Kitchen	Outer	59	400	N/A	N/A	Fail
B_BD_021	Bedroom	Outer	110	78	32	93	Fail
B_BD_02.2	Bedroom	Outer	110	60	32	79	Fail
B_BD_02 3	Bedroom	Outer	110	85	32	91	Fail
B_BD_02.4	Bedroom	Outer	110	199	32	109	Fail
B BD 026	Bedroom	Inner	110	135	32	28	Fall
B BD 027	Bedroom	Inner	110	104	32	22	Pass
B BS 021	Bedroom	Inner	110	100	32	32	Pass
B_LK1_021	Living Room / Kitchen	Inner	59	75	N/A	N/A	Fail
B_LK1_02 2	Living Room / Kitchen	Inner	59	85	N/A	N/A	Fail
B_LK2_021	Living Room / Kitchen	Inner	59	136	N/A	N/A	Fail
B_LK2_02.2	Living Room / Kitchen	Inner	59	75	N/A	N/A	Fail
B_LK2_02.3	Living Room / Kitchen	Inner	59	131	N/A	N/A	Fail
C_BD_021	Bedroom	Inner	110	8/ 01	32	20	Pass Epil
C BD 02 3	Bedroom	Inner	110	79	32	22	Pass
C BD 02 4	Bedroom	Outer	110	98	32	93	Fail
C_BD_02 5	Bedroom	Outer	110	66	32	83	Fail
C_BD_02 6	Bedroom	Outer	110	63	32	71	Fail
C_BD_02 7	Bedroom	Outer	110	92	32	90	Fail
C_BS_021	Bedroom	Inner	110	75	32	33	Fail
C_LKI_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
$C_{\rm LK1}022$	Living Room / Kitchen	Inner	59	77	N/A	N/A	Fall
$C_{K2}021$	Living Room / Kitchen	Inner	59	61	N/A N/A	N/A N/A	Fail
C LK2 02 3	Living Room / Kitchen	Inner	59	76	N/A	N/A	Fail
D_BD_021	Bedroom	Outer	110	68	32	88	Fail
D_BD_0210	Bedroom	Inner	110	67	32	26	Pass
D_BD_02 11	Bedroom	Inner	110	162	32	24	Fail
D_BD_0212	Bedroom	Inner	110	87	32	39	Fail
D_BD_0213	Bedroom	Inner	110	98	32	2/	Pass Epil
D BD 022	Bedroom	Outer	110	69	32	90	Fail
D BD 023	Bedroom	Outer	110	73	32	89	Fail
D_BD_02 4	Bedroom	Outer	110	55	32	73	Fail
D_BD_02 5	Bedroom	Outer	110	118	32	108	Fail
D_BD_02.6	Bedroom	Outer	110	114	32	104	Fail
<u>D_BD_02.7</u>	Bedroom	Inner	110	81	52	38	Fail
	Bedroom	Inner	110	137 72	32 32	57 29	Pass
D BS 021	Bedroom	Inner	110	145	32	33	Fail
D_LK1 021	Living Room / Kitchen	Outer	59	49	N/A	N/A	Pass
D_LK1_02 2	Living Room / Kitchen	Inner	59	90	N/A	N/A	Fail
D_LK1_02 3	Living Room / Kitchen	Inner	59	55	N/A	N/A	Pass
D_LK2_021	Living Room / Kitchen	Outer	59	75	N/A	N/A	Fail
D_LK2_02.2	Living Room / Kitchen	Inner	59	96	N/A	N/A	Fail
D LKZ 02 3	Living Room / Kitchen	Outer	59	74	N/A N/A	N/A N/A	Fail
D K3 02 2	Living Room / Kitchen	Inner	59	83	N/A	N/A	Fail
E_BD 021	Bedroom	Inner	110	83	32	22	Pass
E_BD_02.2	Bedroom	Outer	110	90	32	89	Fail
E_BD_02 3	Bedroom	Outer	110	79	32	89	Fail
E_LK1_021	Living Room / Kitchen	Inner	59	63	N/A	N/A	Fail
E_LK2_021	Living Room / Kitchen	Inner	59	78	N/A	N/A	Fail
G_BD_021	Bedroom	Inner	110	69	<u>52</u> zo	28	Pass
G 1 K2 021	Living Room / Kitchen	Inner	59	55	52 Ν/Δ	20 Ν/Δ	Pass
BD 021	Bedroom	Inner	110	54	32	14	Pass
I_BD_02 2	Bedroom	Inner	110	71	32	39	Fail
I_BD_02 3	Bedroom	Inner	110	105	32	21	Pass
			-				

I BD 024	Bedroom	Outer	110	116	32	86	Fail
BD 02 5	Bedroom	Outer	110	90	32	66	Fail
L BD 02.6	Bedroom	Outer	110	70	32	64	Fail
	Bedroom	Outer	110	74	32	65	Fail
	Living Doom / Kitchon	Innor	F0	74	52 NI/A	NI/A	Fail
I_LKI_021	Living Room / Kitchen	Inner	59	98	IN/A	IN/A	Fall
<u>I_LK2_021</u>	Living Room / Kitchen	Inner	59	83	N/A	N/A	Fall
I_LK2_02.2	Living Room / Kitchen	Inner	59	/0	N/A	N/A	Fail
I_LK2_02 3	Living Room / Kitchen	Inner	59	65	N/A	N/A	Fail
J_BD_021	Bedroom	Inner	110	93	32	15	Pass
J_BD_0210	Bedroom	Outer	110	168	32	102	Fail
J BD 0211	Bedroom	Outer	110	119	32	87	Fail
J BD 02.2	Bedroom	Inner	110	63	32	36	Fail
	Bedroom	Inner	110	80	32	27	Dass
	Bedroom	Innor	110	110	32	20	Pass
	Bedroom	Inner	110	07	70	20	Fass
<u>J_BD_02.5</u>	Bedroom	Outon	110	03	32	37	Fall
	Bedroom	Outer	110	124	32	94	Fall
	Bedroom	Outer	110	141		101	Fail
	Bedroom	Outer	110	173	32	104	Fail
JBD02 9	Bedroom	Outer	110	116	32	100	Fail
J_LK1_021	Living Room / Kitchen	Inner	59	70	N/A	N/A	Fail
J LK2 021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
J LK2 02 2	Living Room / Kitchen	Inner	59	70	N/A	N/A	Fail
J K3 021	Living Room / Kitchen	Inner	59	91	Ν/Δ	Ν/Δ	Fail
	Living Room / Kitchon	Inner	50	61	N/A	N/A	Fail
	Podroom	Outor	110	474	70	170	raii Fail
	Dedroor	Outer	110	4/4	32	170	
<u>K_BD_022</u>	Bearoom	Outer	110	182	52	139	Fail
K_BD_02.3	Bedroom	Outer	110	247	32	154	Fail
K_BD_02 4	Bedroom	Outer	110	769	32	203	Fail
K_BD_02 5	Bedroom	Inner	110	146	32	25	Fail
K_BD_02 6	Bedroom	Inner	110	110	32	28	Pass
K BD 027	Bedroom	Inner	110	164	32	28	Fail
K BS 021	Bedroom	Inner	110	108	.32	26	Pass
K K1 021	Living Room / Kitchen	Inner	59	90	N/A	N/A	Fail
	Living Room / Kitchen	Inner	50	112			Fail
K_LK2_021	Living Room / Kitchen	Inner	59	112	IN/A	IN/A	Fall
K_LK2_021	Living Room / Kitchen	Inner	59	10.4	N/A	N/A	Fall
K_LK2_02.2	Living Room / Kitchen	Inner	59	104	N/A	N/A	Fail
K_LK2_02 3	Living Room / Kitchen	Inner	59	142	N/A	N/A	Fail
L_BD_021	Bedroom	Outer	110	582	32	120	Fail
L_BD_02 2	Bedroom	Outer	110	260	32	115	Fail
L BD 023	Bedroom	Outer	110	319	32	129	Fail
L BD 02 4	Bedroom	Outer	110	780	32	141	Fail
L K2 021	Living Room / Kitchen	Inner	59	96	Ν/Δ	N/A	Fail
	Living Room / Kitchen	Inner	59	97	N/A	N/A	Fail
02 2 	Bodroom	Outor	110	01	72	00	Fail
	Bedroom	Janer	110	105	32	90	Fall
M_BD_0210	Bedroom	Inner	110	125	32	38	Fall
M_BD_0211	Bedroom	Inner	110	89	32	36	Fail
M_BD_02 12	Bedroom	Outer	110	53	32	68	Fail
M_BD_02 2	Bedroom	Outer	110	100	32	103	Fail
M_BD_02 3	Bedroom	Outer	110	100	32	104	Fail
M BD 024	Bedroom	Outer	110	59	32	76	Fail
M BD 025	Bedroom	Outer	110	82	32	92	Fail
M BD 026	Bedroom	Outer	110	96	32	101	Fail
M BD 027	Bedroom	Outer	110	95	32	97	Fail
M PD 02 9	Bedroom	Innor	110	100	32	72	Pass
M PD 020	Podroom	Inner	110	70	70	70	Page
M L K1 00 1		Outer	110	/9	<u> </u>	5U	Pass
M_LKI_021	Living Room / Kitchen	Outer	59	48	N/A	N/A	Pass
M_LK1_02.2	Living Room / Kitchen	Inner	59	86	N/A	N/A	Fail
M_LK1_02 3	Living Room / Kitchen	Inner	59	97	N/A	N/A	Fail
M_LK1_02 4	Living Room / Kitchen	Inner	59	107	N/A	N/A	Fail
M_LK2_021	Living Room / Kitchen	Inner	59	68	N/A	N/A	Fail
M_LK3_021	Living Room / Kitchen	Outer	59	75	N/A	N/A	Fail
M_LK3_02 2	Living Room / Kitchen	Inner	59	102	N/A	N/A	Fail
N BD 021	Bedroom	Inner	110	92	32	15	Pass
N BD 022	Bedroom	Inner	110	76	32	27	Pass
N RD 023	Bedroom	Inner	110	71	32	40	Fail
	Bedroom	Inner	110	117	32 70		Fail
	Bedroom	Outer	110	113	32	22	
		Outer	110	157	52	94	
N_BD_02.6	Bearoom	Outer	110	204	32	104	Fail
N_BD_02 7	Bedroom	Outer	110	129	32	104	Fail
N_LK2_021	Living Room / Kitchen	Inner	59	57	N/A	N/A	Pass
N_LK2_02 2	Living Room / Kitchen	Inner	59	87	N/A	N/A	Fail
N LK3 021	Living Room / Kitchen	Inner	59	80	N/A	N/A	Fail
O BD 021	Bedroom	Inner	110	93	32	15	Pass
0 BD 022	Bedroom	Inner	110	66	32	36	Fail
0 BD 02 Z	Bedroom	Inner	110	62	32	21	Dace
	Bedroom	Outer	110	02	32	21	Fd55
	Dedroor	Outer	110	88	32	0/	
0_BD_02.5	Bearoom	Outer	110	96	52	/0	Fall
0_LK1_021	Living Room / Kitchen	Inner	59	97	N/A	N/A	Fail
O_LK2_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
O_LK2_02 2	Living Room / Kitchen	Inner	59	50	N/A	N/A	Pass
P_BD_021	Bedroom	Outer	110	64	32	58	Fail
P BD 022	Bedroom	Outer	110	73	32	83	Fail
P BD 023	Bedroom	Outer	110	104	.32	46	Fail
P BD 024	Bedroom	Inner	110	139	.32	24	Fail
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P BD 025	Bedroom	Inner	110	89	32	27	Pass
P BD 02.6	Bedroom	Inner	110	156	32	27	Fail
P BD 02 7	Bedroom	Inner	110	107	72	27	Dass
P_BD_027	Bedroom	Outon	110	103	32	29	PdSS
P_BD_02.8	Bedroom	Outer	110	80	32	8Z F0	Fall
P_BD_02.9	Bedroom	Outer	110	37	32	50	Fall
P_LKI_021	Living Room / Kitchen	Outer	59	85	N/A	N/A	Fall
P_LKI_02.2	Living Room / Kitchen	Inner	59	84	N/A	N/A	Fail
P_LK2_021	Living Room / Kitchen	Inner	59	101	N/A	N/A	Fail
P_LK2_02 2	Living Room / Kitchen	Inner	59	87	N/A	N/A	Fail
P_LK3_021	Living Room / Kitchen	Inner	59	137	N/A	N/A	Fail
R_BD_021	Bedroom	Inner	110	94	32	16	Pass
R_BD_0210	Bedroom	Outer	110	193	32	93	Fail
R BD 0211	Bedroom	Inner	110	97	32	32	Pass
R BD 022	Bedroom	Inner	110	67	32	38	Fail
R BD 02.3	Bedroom	Inner	110	104		30	Pass
R BD 024	Bedroom	Inner	110	114	32	23	Fail
P BD 025	Bedroom	Outer	110	98	32	01	Fail
R_DD_02.5	Bedroom	Outer	110	171	72	105	Fail
R_BD_02.0	Bedroom	Outer	110	1/1	72	100	Fail
R_BD_027	Bedroom	Outer	110	142	32	109	Fall
R_BD_02.8	Bedroom	Outer	110	162	32	98	Fall
R_BD_02.9	Bedroom	Outer	110	180	32	93	Fail
R_LKI_021	Living Room / Kitchen	Inner	59	/0	N/A	N/A	Fail
RLK2021	Living Room / Kitchen	Inner	59	56	N/A	N/A	Pass
R_LK2_02 2	Living Room / Kitchen	Inner	59	70	N/A	N/A	Fail
R_LK3_021	Living Room / Kitchen	Inner	59	70	N/A	N/A	Fail
R_LK3_02.2	Living Room / Kitchen	Inner	59	108	N/A	N/A	Fail
Ground							
A_BD_021	Bedroom	Inner	110	145	32	98	Fail
A_BD_02 2	Bedroom	Inner	110	146	32	98	Fail
A_BD_02 3	Bedroom	Inner	110	133	32	96	Fail
A BD 024	Bedroom	Outer	110	556	32	145	Fail
A BD 02.5	Bedroom	Outer	110	707	32	137	Fail
A BD 026	Bedroom	Outer	110	604	32	168	Fail
A BD 02.7	Bedroom	Outer	110	344	32	122	Fail
A BD 02.8	Bedroom	Outer	110	275	32	08	Fail
A RD 02.0	Bedroom	Outer	110	273	72	94	Fail
A_BD_02.9	Bedroom	Janer	110	157	32	101	Fail
A_BS_021	Bedroom	Inner	110	157	32		Fall
A_LKI_021	Living Room / Kitchen	Inner	59	101	N/A	N/A	Fall
A_LKI_02.2	Living Room / Kitchen	Inner	59	99	N/A	N/A	Fail
A_LK2_021	Living Room / Kitchen	Inner	59	90	N/A	N/A	Fail
A_LK3_021	Living Room / Kitchen	Inner	59	133	N/A	N/A	Fail
A_LK3_02 2	Living Room / Kitchen	Outer	59	400	N/A	N/A	Fail
B_BD_021	Bedroom	Outer	110	86	32	96	Fail
B_BD_02 2	Bedroom	Outer	110	62	32	82	Fail
B_BD_02 3	Bedroom	Outer	110	90	32	94	Fail
B_BD_02.4	Bedroom	Outer	110	207	32	109	Fail
B BD 025	Bedroom	Inner	110	135	32	72	Fail
B BD 026	Bedroom	Inner	110	109	32	77	Fail
B BD 027	Bedroom	Inner	110	108		58	Fail
B BS 021	Bedroom	Inner	110	107	32	77	Fail
B K1 021	Living Room / Kitchen	Inner	59	74	Ν/Δ	Ν/Δ	Fail
B K1 02 2	Living Room / Kitchen	Inner	59	01			Fail
B LK2 021	Living Room / Kitchen	Inner	50	176			Fail
B LK2 02 2	Living Room / Kitchen	Inner	50	76			Fail
	Living Room / Kitchen	Inner	55	171			Fair Fair
D_LK2_U23		Inner	59 110	131	N/A	IN/ A	
	Dedroom	Inner	110	92	32	49	
C_BD_02.2	Bedroom	inner	110	92	52	//	⊢all
C_BD_02.3	Bedroom	inner	110	/9	52	53	⊢all
	Bedroom	Outer	110	101	52	94	
C_BD_02.5	Bearoom	Outer	110	69	32	86	Fail
C_BD_02.6	Bedroom	Outer	110	62	32	76	Fail
C_BD_02 7	Bedroom	Outer	110	93	32	93	Fail
C_BS_021	Bedroom	Inner	110	84	32	71	Fail
C_LK1_021	Living Room / Kitchen	Inner	59	64	N/A	N/A	Fail
C_LK1_02 2	Living Room / Kitchen	Inner	59	67	N/A	N/A	Fail
C_LK2_021	Living Room / Kitchen	Inner	59	81	N/A	N/A	Fail
C_LK2_02 2	Living Room / Kitchen	Inner	59	66	N/A	N/A	Fail
C_LK2_02 3	Living Room / Kitchen	Inner	59	79	N/A	N/A	Fail
D_BD_021	Bedroom	Outer	110	73	32	91	Fail
D_BD_0210	Bedroom	Inner	110	72	32	53	Fail
D BD 0211	Bedroom	Inner	110	157	32	56	Fail
D BD 0212	Bedroom	Inner	110	89	32	81	Fail
D BD 0213	Bedroom	Inner	110	100	32	65	Fail
D RD 0214	Bedroom	Inner	110	178	32	44	Fail
	Bedroom	Outer	110	77	20	Q1	Eail
	Bedroom	Outor	110	73	22	00	Eail
	Podroom	Outer	110	/3	J∠ 	77	Fall Fail
	Dedroom	Outer	110	35	32	/ 3	
		Outer	110	119	52	108	
<u>D_BD_02.6</u>	Bearoom	Outer	110	114	32	104	⊢aii
D_BD_027	Bedroom	Inner	110	92	32	81	Fail
D_BD_02.8	Bedroom	Inner	110	142	32	88	Fail
D_BD_02 9	Bedroom	Inner	110	77	32	64	Fail
D BS 021	Bedroom	Inner	110	146	32	82	Fail

| D_LKI_02.2

 | Living Doom / Kitchon | Innor | FO | 0 E | NI/A
 | NI / A | Fail | | | | | | | | | | | | | |
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 | Living Room / Kitchen | Inner | 59 | 95 | IN/A
 | IN/A | Fall | | | | | | | | | | | | | |
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 | Living Room / Kitchen | Inner | 59 | 55 | N/A
 | N/A | Pass | | | | | | | | | | | | | |
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 | Living Deens / Kitchen | Outer | 50 | 75 | N1/A
 | N1/A | Fail | | | | | | | | | | | | | |
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 | Living Room / Kitchen | Outer | 59 | /5 | IN/A
 | IN/A | Fall | | | | | | | | | | | | | |
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| D_LK2_02 2

 | Living Room / Kitchen | Inner | 59 | 93 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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| D 1 K2 02 Z

 | Living Room / Kitchen | Inner | 59 | 77 | NI/A
 | NI/Δ | Fail | | | | | | | | | | | | | |
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| D_LK2_02.5

 | Living Room/ Ritchen | | 53 | // | | | | | | | | | | | |
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 | Living Room / Kitchen | Outer | 59 | /5 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | | | | | |
| D LK3 022

 | Living Room / Kitchen | Inner | 59 | 91 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | Podroom | Inner | 110 | 00 | 70
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| EBD02 I

 | Bedroom | Inner | 110 | 86 | 32
 | 53 | Fail | | | | | | | | | | | | | |
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| E BD 022

 | Bedroom | Outer | 110 | 93 | .32
 | 92 | Fail | | | | | | | | | | | | | |
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 | Bedroom | | 110 | | 32
 | 52 | | | | | | | | | | | | | | |
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| E_BD_02.3

 | Bedroom | Outer | 110 | 84 | 32
 | 93 | Fail | | | | | | | | | | | | | |
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| E LK1 021

 | Living Room / Kitchen | Inner | 59 | 67 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | | line en | 50 | 02 | | | | | | | | | | | |
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| ELK202 I

 | Living Room / Kitchen | Inner | 59 | 82 | N/A
 | N/A | Fall | | | | | | | | | | | | | |
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| G BD 021

 | Bedroom | Inner | 110 | 71 | 32
 | 64 | Fail | | | | | | | | | | | | | |
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| C R5 021

 | Bedroom | Inner | 110 | 75 | 72
 | 67 | Fail | | | | | | | | | | | | | |
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| GBS021

 | Bedroom | Inner | 110 | /5 | 52
 | 67 | Fall | | | | | | | | | | | | | |
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| G LK2 021

 | Living Room / Kitchen | Inner | 59 | 58 | N/A
 | N/A | Pass | | | | | | | | | | | | | |
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 | Bodroom | Innor | 110 | EO | 70
 | 75 | Fail | | | | | | | | | | | | | |
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| <u>БD02 Т</u>

 | Bedroom | Inner | 110 | 56 | 32
 | 35 | Fdll | | | | | | | | | | | | | |
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| I_BD_02.2

 | Bedroom | Inner | 110 | 75 | 32
 | 74 | Fail | | | | | | | | | | | | | |
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 | Podroom | Innor | 110 | 107 | 70
 | 50 | Epil | | | | | | | | | | | | | |
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| 02_3

 | Bedroom | inner | 110 | 107 | 52
 | 50 | 1 41 | | | | | | | | | | | | | |
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| I_BD_02 4

 | Bedroom | Outer | 110 | 118 | 32
 | 89 | Fail | | | | | | | | | | | | | |
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| L BD 02.5

 | Bedroom | Outer | 110 | 89 | 32
 | 70 | Fail | | | | | | | | | | | | | |
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| <u></u> 02 3

 | Bedroom | Outer | 110 | 05 | 52
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| I_BD_02.6

 | Bedroom | Outer | 110 | /3 | | | | | | | | | | | |
 | 66 | Fail | | | | | | | | |
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| L BD 027

 | Bedroom | Outer | 110 | 76 | 32
 | 67 | Fail | | | | | | | | | | | | | |
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| 1_00_027

 | Dearoonn | outer | 110 | ,,, | 52
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| I_LK1_021

 | Living Room / Kitchen | Inner | 59 | 96 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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| 1 K2 021

 | Living Room / Kitchen | Inner | 59 | 85 | Ν/Δ
 | Ν/Δ | Fail | | | | | | | | | | | | | |
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| I_LK2_02 2

 | Living Room / Kitchen | Inner | 59 | 74 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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| 1 K2 02 Z

 | Living Room / Kitchen | Inner | 59 | 70 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | Entry Room / Ritchell | | 110 | /0 | | | | | | | | | | | |
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| J_BD_021

 | Bedroom | Inner | 110 | 93 | 32
 | 36 | Fail | | | | | | | | | | | | | |
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| J BD 0210

 | Bedroom | Outer | 110 | 170 | .32
 | 102 | Fail | | | | | | | | | | | | | |
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| J_RD_0211

 | ьearoom | Outer | 110 | 122 | 52
 | 91 | Fall | | | | | | | | | | | | | |
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| J BD 022

 | Bedroom | Inner | 110 | 68 | 32
 | 69 | Fail | | | | | | | | | | | | | |
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| J_BD_023

 | вearoom | Inner | 110 | 8/ | 52
 | /1 | Fail | | | | | | | | | | | | | |
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| J BD 024

 | Bedroom | Inner | 110 | 115 | 32
 | 51 | Fail | | | | | | | | | | | | | |
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 | Padroom | Inner | 110 | 00 | 70
 | 00 |
Tail | | | | | | | | | | | | | |
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| J_BD_02.5

 | Bedroom | Inner | 110 | 92 | 32
 | 86 | Fail | | | | | | | | | | | | | |
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| J BD 026

 | Bedroom | Outer | 110 | 123 | 32
 | 98 | Fail | | | | | | | | | | | | | |
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 | Dedreem | Outer | 110 | 140 | 70
 | 10.4 | Fail | | | | | | | | | | | | | |
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| J_BD_027

 | Dedroom | Juler | 110 | 148 | 32
 | 104 | Fall | | | | | | | | | | | | | |
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| J BD 028

 | Bedroom | Outer | 110 | 177 | 32
 | 108 | Fail | | | | | | | | | | | | | |
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 | Bedroom | Outor | 110 | 110 | 70
 | 100 | Fail | | | | | | | | | | | | | |
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 | Bedroom | Outer | IIO | 116 | 32
 | 100 | Fdll | | | | | | | | | | | | | |
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| J_LK1_021

 | Living Room / Kitchen | Inner | 59 | 80 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | Living Poom / Kitchen | Inner | 59 | 60 | NI/A
 | NI/A | Epil | | | | | | | | | | | | | |
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 | Living Room / Kitchen | Inner | 59 | 75 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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| 1 K3 021

 | Living Room / Kitchen | Inner | 59 | 96 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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 | Living Room / Kitchen | Inner | 59 | 63 | N/A
 | N/A | Fail | | | | | | | | | | | | | |
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| K BD 021

 | Bedroom | Outer | 110 | 473 | 32
 | 170 | Fail | | | | | | | | | | | | | |
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 | Bedroom | Outer | 110 | 4/5 | 52
 | 1/0 | | | | | | | | | | | | | | |
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| K_BD_02.2

 | Bedroom | Outer | 110 | 190 | | | | | | | | | | | |
 | 140 | Fail | | | | | | | | |
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| K BD 023

 | Bedroom | Outer | 110 | 248 | .32
 | 157 | Fail | | | | | | | | | | | | | |
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 | Bedroom | | 110 | 210 | 32
 | 107 | - 11 | | | | | | | | | | | | | |
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| K_BD_02.4

 | Bedroom | Outer | 110 | 760 | 32
 | 201 | Fail | | | | | | | | | | | | | |
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| K BD 025

 | Bedroom | Inner | 110 | 141 | .32
 | 61 | Fail | | | | | | | | | | | | | |
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| K_DD_02.0

 | Dedroem | la a su | 110 | 11.4 | 32
 | 60 | :I | | | | | | | | | | | | | |
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| KBD02.6

 | Bedroom | Inner | 110 | 114 | 32
 | 68 | Fall | | | | | | | | | | | | | |
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| K BD 027

 | Deducers | Immore | | 157 | 32
 | <u> </u> | Fail | | | | | | | | | | | | | |
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 | Bearoom | Inner | 110 | 157 | | | | | | | | | | | |
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| 16 56 661

 | Bedroom | Inner | 110 | 157 | 32
 | 68 | - 11 | | | | | | | | | | | | | |
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| K_BS_021

 | Bedroom | Inner | 110
110 | 110 | 32
 | 68
65 | Fail | | | | | | | | | | | | | |
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| K_BS_021
K_LK1_021

 | Bedroom
Bedroom
Living Room / Kitchen | Inner | 110
110
59 | <u>157</u>
110
91 | 32
N/A
 | 68
65
N/A | Fail | | | | | | | | | | | | | |
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| K_BS_021
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 | Bedroom
Bedroom
Living Room / Kitchen | Inner
Inner
Inner | 110
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91 | 32
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Fail | | | | | | | | | | | | | |
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N_BD_02 5	Bedroom	Outer	110	140	32	96	Fail
N_BD_02.6	Bedroom	Outer	110	205	32	107	Fail
N_BD_02 7	Bedroom	Outer	110	133	32	106	Fail
N_LK2_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
N_LK2_02.2	Living Room / Kitchen	Inner	59	88	N/A	N/A	Fail
N_LK3_021	Living Room / Kitchen	Inner	59	83	N/A	N/A	Fail
O_BD_021	Bedroom	Inner	110	94	32	36	Fail
O_BD_02 2	Bedroom	Inner	110	70	32	70	Fail
O_BD_02 3	Bedroom	Inner	110	66	32	50	Fail
O_BD_02 4	Bedroom	Outer	110	88	32	68	Fail
O_BD_02 5	Bedroom	Outer	110	98	32	74	Fail
O_LK1_021	Living Room / Kitchen	Inner	59	97	N/A	N/A	Fail
O_LK2_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
O_LK2_02 2	Living Room / Kitchen	Inner	59	52	N/A	N/A	Pass
P_BD_021	Bedroom	Outer	110	64	32	58	Fail
P_BD_02_2	Bedroom	Outer	110	76	32	88	Fail
P_BD_02 3	Bedroom	Outer	110	114	32	85	Fail
P_BD_02 4	Bedroom	Inner	110	135	32	61	Fail
P_BD_02 5	Bedroom	Inner	110	93	32	60	Fail
P_BD_02.6	Bedroom	Inner	110	154	32	70	Fail
P_BD_02 7	Bedroom	Inner	110	104	32	63	Fail
P_BD_02.8	Bedroom	Outer	110	80	32	87	Fail
P_BD_02 9	Bedroom	Outer	110	38	32	52	Fail
P_LK1_021	Living Room / Kitchen	Outer	59	84	N/A	N/A	Fail
P_LK1_02.2	Living Room / Kitchen	Inner	59	89	N/A	N/A	Fail
P LK2 021	Living Room / Kitchen	Inner	59	104	N/A	N/A	Fail
P_LK2_02.2	Living Room / Kitchen	Inner	59	90	N/A	N/A	Fail
P_LK3_021	Living Room / Kitchen	Inner	59	128	N/A	N/A	Fail
R_BD_021	Bedroom	Inner	110	94	32	46	Fail
R_BD_0210	Bedroom	Outer	110	193	32	95	Fail
R BD 0211	Bedroom	Inner	110	101	32	78	Fail
R_BD_02.2	Bedroom	Inner	110	71	32	81	Fail
R_BD_02 3	Bedroom	Inner	110	108	32	87	Fail
R_BD_02.4	Bedroom	Inner	110	119	32	58	Fail
R_BD_02 5	Bedroom	Outer	110	99	32	94	Fail
R_BD_026	Bedroom	Outer	110	174	32	106	Fail
R_BD_02 7	Bedroom	Outer	110	142	32	110	Fail
R_BD_02.8	Bedroom	Outer	110	157	32	98	Fail
R_BD_02.9	Bedroom	Outer	110	184	32	95	Fail
R_LK1_021	Living Room / Kitchen	Inner	59	81	N/A	N/A	Fail
R_LK2_021	Living Room / Kitchen	Inner	59	58	N/A	N/A	Pass
R LK2 02 2	Living Room / Kitchen	Inner	59	76	N/A	N/A	Fail
R LK3 021	Living Room / Kitchen	Inner	59	76	N/A	N/A	Fail
R LK3 02 2	Living Room / Kitchen	Inner	59	107	N/A	N/A	Fail
Table 11.3 - D	etailed overheating	results for	the domestic a	areas using t	he DSY2 weath	er data	

DSY3							
Zone Name	Room Use	Orientatio n	Max. Exceedable Hours	Criterion 1: #Hours Exceeding Comfort Range	Max Exceedable Night Hours	Criterion 2: Number of Night Hours Exceeding 26 °C for Bedrooms.	Result
Levels 01 to top	C						
A_BD_021	Bedroom	13	110	194	32	75	Fail
A_BD_02 2	Bedroom	13	110	197	32	76	Fail
A_BD_02 3	Bedroom	13	110	186	32	80	Fail
A_BD_02 4	Bedroom	13	110	666	32	195	Fail
A_BD_02 5	Bedroom	13	110	809	32	195	Fail
A_BD_02 6	Bedroom	13	110	725	32	247	Fail
A_BD_02 7	Bedroom	13	110	438	32	170	Fail
A_BD_02.8	Bedroom	13	110	358	32	136	Fail
A_BD_02 9	Bedroom	13	110	299	32	125	Fail
A_BS_021	Bedroom	13	110	199	32	78	Fail
A_LK1_021	Living Room / Kitchen	13	59	141	N/A	N/A	Fail
A_LK1_02 2	Living Room / Kitchen	13	59	148	N/A	N/A	Fail
A_LK2_021	Living Room / Kitchen	13	59	138	N/A	N/A	Fail
A_LK3_021	Living Room / Kitchen	13	59	185	N/A	N/A	Fail
A_LK3_02 2	Living Room / Kitchen	13	59	520	N/A	N/A	Fail
B_BD_021	Bedroom	10	110	126	32	133	Fail
B_BD_02 2	Bedroom	10	110	96	32	122	Fail
B_BD_02 3	Bedroom	10	110	134	32	126	Fail
B_BD_02 4	Bedroom	10	110	292	32	147	Fail
B_BD_02 5	Bedroom	10	110	195	32	42	Fail
B_BD_026	Bedroom	10	110	158	32	45	Fail
B_BD_027	Bedroom	10	110	161	32	33	Fail
B_BS_021	Bedroom	10	110	154	32	44	Fail
B_LK1_021	Living Room / Kitchen	10	59	114	N/A	N/A	Fail
B_LK1_02 2	Living Room / Kitchen	10	59	138	N/A	N/A	Fail
B_LK2_021	Living Room / Kitchen	10	59	202	N/A	N/A	Fail
B_LK2_02.2	Living Room / Kitchen	10	59	113	N/A	N/A	Fail
B_LK2_02 3	Living Room / Kitchen	10	59	200	N/A	N/A	Fail

C BD 021	Bedroom	37	110	126	32	35	Fail
C BD 022	Bedroom	37	110	122	32	53	Fail
C BD 02 3	Bedroom	41	110	116	32	40	Fail
	Bedroom	41	110	10	32	40	Faii
C_BD_02.4	Bedroom	29	110	156	32	132	Fail
C_BD02 5	Bedroom	29	110	108	32	122	Fail
C_BD_02 6	Bedroom	25	110	96	32	113	Fail
C BD 027	Bedroom	25	110	152	32	130	Fail
C BS 021	Bedroom	77	110	102	72	47	Fail
<u> </u>	Bedroom	37	110	110	32	4/	Fall
C_LK1_021	Living Room / Kitchen	37	59	83	N/A	N/A	Fail
C_LK1_02 2	Living Room / Kitchen	48	59	87	N/A	N/A	Fail
C LK2 021	Living Room / Kitchen	25	59	124	N/A	N/A	Fail
C K2 02 2	Living Poom / Kitchen	30	59	<u>8</u> /	N/A	N/A	Fail
<u>C_LK2_02 Z</u>		30	55	11.4			Tail
C_LK2_02.3	Living Room / Kitchen	29	59	114	N/A	N/A	Fall
DBD021	Bedroom	28	110	113	32	125	Fail
D_BD_0210	Bedroom	28	110	117	32	39	Fail
D BD 0211	Bedroom	.32	110	222	32	28	Fail
	Bedroom	72	110	172	72	17	Fail
	Bedroolli	32	110	132	32	4/	Faii
D02_13	Bedroom	32	110	148	32		Fail
D_BD_0214	Bedroom	32	110	206	32	29	Fail
D BD 022	Bedroom	28	110	115	32	130	Fail
D BD 023	Bedroom	16	110	132	32	137	Fail
D BD 02.4	Bedroom	16	110	105	32	107	Fail
<u>Б</u> 02 4	Bedroom	10	110	105	32	123	Fall
D_BD_02 5	Bedroom	16	110	202	32	149	Fail
D_BD_02 6	Bedroom	28	110	184	32	141	Fail
D BD 027	Bedroom	16	110	136	32	55	Fail
	Bedroom	16	110	100	30	55	Fail
	Bodroom	16	110	100	70	3.5	
	Bedroom	10	110	109	32	44	
D_B\$_021	Bedroom	16	110	208	32	51	Fail
D_LK1_021	Living Room / Kitchen	16	59	90	N/A	N/A	Fail
D LK1 02 2	Living Room / Kitchen	16	59	131	N/A	N/A	Fail
	Living Room / Kitchen	28	50	22	Ν/Λ	Ν/Λ	Fail
	Living Room / Kitchen	10	53	100			raii
D_LK2_021	Living Room / Kitchen	10	59	126	N/A	N/A	Fall
	Living Room / Kitchen	32	59	140	N/A	N/A	Fail
D LK2 023	Living Room / Kitchen	34	59	129	N/A	N/A	Fail
D K3 021	Living Room / Kitchen	28	59	116	N/A	N/A	Fail
	Living Room / Kitchon	16	50	175		N/A	Fail
D_LK3_02.2	Living Room / Ritchen	10	59	135	N/A	IN/A	Faii
EBD021	Bedroom	/	110	118	32	40	Fail
E_BD_02 2	Bedroom	7	110	145	32	124	Fail
E BD 023	Bedroom	7	110	118	32	129	Fail
E K1 021	Living Room / Kitchen	7	59	89	Ν/Δ	Ν/Δ	Fail
E_LK2_021	Living Room / Kitchen	7	55	107			Fail
UZ I	Living Room / Kitchen	/	59	127	IN/A	IN/A	Fall
GBD021	Bedroom	11	110	98	32	43	Fail
G_BS_021	Bedroom	11	110	100	32	43	Fail
G K2 021	Living Room / Kitchen	11	59	63	N/A	N/A	Fail
	Bodroom	7	110	77	72	24	Pass
	Bedroom	7	110	100	32	24	
I_BD_02.2	Bedroom	/	110	100	32	54	Fail
I_BD_02 3	Bedroom	7	110	158	32	35	Fail
BD 024	Bedroom	7	110	180	32	117	Fail
L BD 02.5	Bedroom	7	110	148	32	110	Fail
	Dedreem	,	110	100	70	00	Fail
02.6	Bedroom	9	110	109	32	98	Fall
I_BD_02 7	Bedroom	9	110	121	32	101	Fail
I_LK1_021	Living Room / Kitchen	7	59	143	N/A	N/A	Fail
LLK2 021	Living Room / Kitchen	7	59	119	N/A	N/A	Fail
	Living Poom / Kitchen	7	59	96	N/A	N/A	Fail
		Ĺ.	55	05			
LK2_023	Living Room / Kitchen	9	59	95	IN/A	IN/A	Fall
JBD021	Bedroom	9	110	140	32	32	Fail
J_BD_0210	Bedroom	9	110	249	32	140	Fail
J BD 0211	Bedroom	9	110	17.3	32	117	Fail
	Bedroom	9	110	07	22	52	Fail
	Dedrees	0	110	100	32	JZ	ган Г-1
J_BD_02.3	Bearoom	3	IIU	120	52	45	
JBD02 4	Bedroom	9	110	167	32	36	Fail
J_BD_02 5	Bedroom	9	110	123	32	55	Fail
J BD 026	Bedroom	9	110	185	32	127	Fail
	Bedroom	9	110	208	20	170	Fail
		0	110	200	32	1.00	- all
J_BD_02.8	Bearoom	9	110	263	52	147	⊢ail
	Bedroom	9	110	184	32	140	Fail
J_LK1 021	Living Room / Kitchen	9	59	103	N/A	N/A	Fail
J K2 021	Living Room / Kitchen	9	59	84		, N/Δ	Fail
	Koon/ Kitchen	~					
· · · · · / / / /	Living Doom / Kitchan	0	50	07	N/A N/A	NL/A	Eail
<u> </u>	Living Room / Kitchen	9	59	93	N/A N/A	N/A	Fail
J_LK3_021	Living Room / Kitchen Living Room / Kitchen	9 9	59 59	93 147	N/A N/A N/A	N/A N/A	Fail Fail
J_LK3_021 J_LK3_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	9 9 9	59 59 59 59	93 147 79	N/A N/A N/A N/A	N/A N/A N/A	Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom	9 9 9 10	59 59 59 59 110	93 147 79 598	N/A N/A N/A N/A 32	N/A N/A N/A 207	Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	9 9 9 10	59 59 59 110 110	93 147 79 598 287	N/A N/A N/A 32	N/A N/A N/A 207	Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom	9 9 9 10 10	59 59 59 110 110	93 147 79 598 287	N/A N/A N/A 32 32	N/A N/A 207 183	Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_022 K_BD_023	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom	9 9 9 10 10 10	59 59 59 110 110 110 110	93 147 79 598 287 340	N/A N/A N/A 32 32 32 32	N/A N/A 207 183 209	Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_023 K_BD_024	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom	9 9 10 10 10 10 10	59 59 59 110 110 110 110	93 147 79 598 287 340 938	N/A N/A N/A 32 32 32 32 32	N/A N/A 207 183 209 246	Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_022 K_BD_023 K_BD_024 K_BD_025	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	9 9 9 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110	93 147 79 598 287 340 938 205	N/A N/A N/A 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32	Fail Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_022 K_BD_022 K_BD_023 K_BD_023 K_BD_024 K_BD_025 K_BD_025	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	9 9 9 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110	93 147 79 598 287 340 938 205 164	N/A N/A N/A 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38	Fail Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_023 K_BD_024 K_BD_025 K_BD_026	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	9 9 9 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110	93 147 79 598 287 340 938 205 164 277	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38	Fail Fail Fail Fail Fail Fail Fail Fail
J LK3 021 J LK3 022 K BD 022 K BD 022 K BD 023 K BD 023 K BD 025 K BD 026 K BD 026 K BD 027	Living Room / Kitchen Living Room / Kitchen Bedroom / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	9 9 9 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110	93 147 79 598 287 340 938 205 164 237	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38 40	Fail Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_022 K_BD_022 K_BD_022 K_BD_023 K_BD_024 K_BD_025 K_BD_026 K_BD_027 K_BS_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	9 9 9 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 11	93 147 79 598 287 340 938 205 164 237 163	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38 40 36	Fail Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_021 K_BD_022 K_BD_023 K_BD_024 K_BD_025 K_BD_026 K_BD_027 K_BD_027 K_BS_021 K_LK1_021	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen	9 9 9 10 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 59	93 147 79 598 287 340 938 205 164 237 163 136	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38 40 36 N/A	Fail Fail Fail Fail Fail Fail Fail Fail
J LK3 021 J LK3 022 K BD 022 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 026 K BD 027 K BD 027 K BS 021 K LK1 022	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	9 9 9 10 10 10 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 59 59 59	93 147 79 598 287 340 938 205 164 237 163 136 159	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38 40 36 N/A N/A	Fail Fail Fail Fail Fail Fail Fail Fail
J_LK3_021 J_LK3_022 K_BD_022 K_BD_022 K_BD_022 K_BD_024 K_BD_025 K_BD_026 K_BD_026 K_BD_026 K_BD_027 K_BS_021 K_LK1_021 K_LK1_021 K_LK2_021	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen	9 9 9 10 10 10 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 59 59 59	93 147 79 598 287 340 938 205 164 237 163 136 159 163	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A 207 183 209 246 32 38 40 36 N/A N/A N/A	Fail Fail Fail Fail Fail Fail Fail Fail
J LK3 021 J LK3 022 K BD 021 K BD 022 K BD 023 K BD 024 K BD 024 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 021 K LK1 022 K LK2 021	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 59 59 59 59 59	93 147 79 598 287 340 938 205 164 237 163 136 159 163 159 163	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A	N/A N/A 207 183 209 246 32 38 40 36 N/A N/A N/A N/A	Fail Fail
J LK3 021 J LK3 022 K BD 022 K BD 022 K BD 023 K BD 024 K BD 025 K BD 025 K BD 026 K BD 027 K BS 021 K LK1 021 K LK1 022 K LK2 021 K LK2 022	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	59 59 59 110 110 110 110 110 110 110 110 110 59 59 59 59 59	93 147 79 598 287 340 938 205 164 237 163 136 159 163 159 163	N/A N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 N/A N/A N/A N/A	N/A N/A 207 183 209 246 32 38 40 36 N/A N/A N/A N/A N/A	Fail Fail Fail Fail Fail Fail Fail Fail

L BD 021	Bedroom	12	110	689	32	165	Fail
	Bedroom	12	110	770	72	167	Fail
	Bedroom	12	110	370	32	103	
L_BD_02.3	Bedroom	12	110	418	32	182	Fail
L_BD_02 4	Bedroom	12	110	863	32	184	Fail
L_LK2_021	Living Room / Kitchen	12	59	160	N/A	N/A	Fail
L LK2 022	Living Room / Kitchen	12	59	158	N/A	N/A	Fail
M BD 021	Bedroom	4	110	14.3	.32	135	Fail
M PD 0210	Bedroom	4	110	190	72	E 4	Fail
M_DD_02.10	Dedroom	4	110	170	32	54	Faii Fail
M_BD_0211	Bedroom	4	110	132	32	54	Fall
M_BD_0212	Bedroom	4	110	83	32	106	Fail
M_BD_02 2	Bedroom	4	110	167	32	143	Fail
M_BD_02 3	Bedroom	4	110	166	32	141	Fail
M BD 024	Bedroom	4	110	108	32	126	Fail
M BD 025	Bedroom	4	110	162	32	138	Fail
M BD 02.6	Bedroom	1	110	159	32	138	Fail
M DD 02 7	Bedroom	4	110	153	32	130	Fail
M_BD_027	Bedroom	4	110	155	32	154	Fall
M_BD_02.8	Bedroom	4	110	164	32	49	Fail
M_BD_02 9	Bedroom	4	110	126	32	46	Fail
M_LK1_021	Living Room / Kitchen	4	59	88	N/A	N/A	Fail
M LK1 02 2	Living Room / Kitchen	4	59	115	N/A	N/A	Fail
M K1 02 3	Living Room / Kitchen	4	59	152	N/A	N/A	Fail
M L K1 02 4	Living Room / Kitchen	1	59	152		N/A	Fail
M_LK2_02.4		4	59	139	IN/A	IN/A	Faii Fail
M_LK2_021	Living Room / Kitchen	4	59	98	N/A	N/A	Fall
M_LK3_021	Living Room / Kitchen	4	59	128	N/A	N/A	Fail
M_LK3_02 2	Living Room / Kitchen	4	59	147	N/A	N/A	Fail
N_BD_021	Bedroom	7	110	138	32	28	Fail
N BD 022	Bedroom	7	110	111	32	43	Fail
N BD 023	Bedroom	7	110	105	.32	56	Fail
N BD 02.4	Bedroom	. 7	110	172	32	47	Fail
	Podroom	7	110	200	70	10 /	- aii
IN_BD_02.5	Beuroom	/	110	200	52	124	
N_BD_02 6	Bedroom	7	110	298	32	148	Fail
N_BD_02 7	Bedroom	7	110	199	32	146	Fail
N_LK2_021	Living Room / Kitchen	7	59	78	N/A	N/A	Fail
N LK2 02 2	Living Room / Kitchen	7	59	126	N/A	N/A	Fail
N 1 K3 021	Living Room / Kitchen	7	59	108	Ν/Δ	Ν/Δ	Fail
0 PD 021	Bodroom	7	110	170	72	27	Fail
	Bedroom	7	110	139	32	27	
O_BD_02.2	Bedroom	/	110	96	32	49	Fail
O_BD_02 3	Bedroom	7	110	86	32	28	Pass
O_BD_02 4	Bedroom	7	110	143	32	107	Fail
O BD 025	Bedroom	7	110	144	32	103	Fail
0 LK1 021	Living Room / Kitchen	7	59	139	N/A	N/A	Fail
$0 k^2 021$	Living Poom / Kitchen	7	59	70	N/A	N/A	Fail
0_LK2_021	Living Room / Kitchen	7	59	67			T dil Fail
<u> </u>	Living Room / Kitchen	/	59	63	IN/A	IN/A	Fall
P_BD_021	Bedroom	6	110	100	32	97	Fail
P_BD_02 2	Bedroom	6	110	110	32	127	Fail
P_BD_02 3	Bedroom	6	110	158	32	62	Fail
P BD 02 4	Bedroom	6	110	205	32	29	Fail
P BD 025	Bedroom	6	110	138	32	37	Fail
P PD 026	Bedroom	z	110	220	72	41	Fail
F_BD_02.0	Bedroom	3	110	229	32	41	
P_BD_027	Bedroom	3	110	154	32	41	Fail
P_BD_02.8	Bedroom	3	110	128	32	119	Fail
P_BD_02 9	Bedroom	3	110	57	32	84	Fail
P LK1 021	Living Room / Kitchen	6	59	143	N/A	N/A	Fail
P LK1 02 2	Living Room / Kitchen	3	59	135	N/A	N/A	Fail
P K2 021	Living Room / Kitchen	6	59	149	N/A	N/A	Fail
D K2 02 1	Living Room / Kitchen	6	50	125	N/A	N/A	Fail
P LKZ_02 Z	Living Room / Kitcher	7	55	120			- aii
P_LK3_U21	Living Room / Kitchen	3	59	198	IN/A	IN/A	
<u>к_вр_021</u>	Bearoom	Ь	110	140	32	32	⊢aii
R_BD_0210	Bedroom	4	110	290	32	125	Fail
R_BD_0211	Bedroom	4	110	140	32	47	Fail
R_BD_02 2	Bedroom	6	110	97	32	56	Fail
R BD 023	Bedroom	6	110	154	32	55	Fail
R BD 024	Bedroom	6	110	17.3	.32	45	Fail
R BD 025	Bedroom	6	110	160	32	171	Fail
	Bodroom	6	110	261	70	146	
		0	110	201	32	140	
R_BD_027	Bearoom	6	110	220	52	160	Fail
R_BD_02 8	Bedroom	4	110	247	32	139	Fail
R_BD_02 9	Bedroom	4	110	270	32	128	Fail
R_LK1 021	Living Room / Kitchen	4	59	105	N/A	N/A	Fail
R I K2 021	Living Room / Kitchen	6	59	78	N/A	N/A	Fail
R K2 02 1	Living Room / Kitchen	6	50	05	NI/A	Ν/Λ	Eail
D L K7 021	Living Room / Kitchen	6	50	07			Esil
R_LK3_U21	Living Room / Kitchen	0	59	33	IN/A	IN/A	
R_LK3_02.2	Living Room / Kitchen	4	59	164	N/A	N/A	Fail
Ground		T					
A_BD_021	Bedroom	13	110	221	32	117	Fail
A BD 022	Bedroom	13	110	233	32	126	Fail
A BD 02.3	Bedroom	13	110	222	32	126	Fail
	Bedroom	13	110	222	30	101	Eail
	Podroom	17	110	000	70	105	
A_BD_02.5	Dedroom	13	110	808	32	195	
A_BD_02.6	Bearoom	15	110	/24	52	247	Fail
A_BD_02 7	Bedroom	13	110	427	32	171	Fail
A_BD_02 8	Bedroom	13	110	356	32	140	Fail
A BD 029	Bedroom	13	110	294	32	131	Fail
		17	110	241	32	171	Fail
A BS 021	Bedroom	15	11()	/		1.11	

A_LKI_UZI	Living Doom / Kitchon	17	FO	150	NI/A	NI/A	Fail
	Living Room / Kitchen	15	59	159	IN/A	N/A	Fall
A_LK1_02.2	Living Room / Kitchen	13	59	161	N/A	N/A	Fail
A 1 K2 021	Living Room / Kitchen	13	59	155	N/A	N/A	Fail
	Living Room / Kitchon	17	50	100			Epil
A_LK3_021	Living Room / Kitchen	15	59	180	N/A	N/A	Fall
ALK302 2	Living Room / Kitchen	13	59	517	N/A	N/A	Fail
B BD 021	Bedroom	10	110	131	.32	136	Fail
B BD 02.2	Bodroom	10	110	101	72	129	Fail
<u> </u>	Bedroom	10	110	101	52	128	Fall
B_BD_02 3	Bedroom	10	110	140	32	131	Fail
B BD 024	Bedroom	10	110	295	32	147	Fail
<u> </u>	Dedroom	10	110	105	52	147	
<u> </u>	Bedroom	10	110	195	32	86	Fall
B_BD_026	Bedroom	10	110	162	32	95	Fail
B BD 027	Bedroom	10	110	166	32	84	Fail
<u> </u>	Bedroom	10	110	150	32	00	
B021	Bedroom	10	110	158	32	99	Fail
B LK1 021	Living Room / Kitchen	10	59	126	N/A	N/A	Fail
B K1 02 2	Living Room / Kitchen	10	59	143	Ν/Δ	Ν/Δ	Fail
<u> </u>		10	55	145			
BLK2_021	Living Room / Kitchen	10	59	203	N/A	N/A	Fail
B LK2 022	Living Room / Kitchen	10	59	127	N/A	N/A	Fail
B 1 K2 02 Z	Living Boom / Kitchon	10	50	10.9		NI/A	Epil
B_LK2_02 3	Living Room / Ritchen	10	59	198	IN/A	N/A	Faii
CBD021	Bedroom	37	110	135	32	67	Fail
C BD 022	Bedroom	37	110	144	32	109	Fail
C BD 02.7	Bedroom	41	110	127	72	96	Fail
С_ВD_023	Bedroom	41	110	127	32	00	Fall
CBD02_4	Bedroom	29	110	157	32	134	Fail
C BD 02.5	Bedroom	29	110	114	32	126	Fail
	Podroom	25	110	00	70	110	Epil
C_BD_02.6	Dedroom	20	110	33	52	115	Fall
C_BD_02 7	Bedroom	25	110	154	32	133	Fail
C BS 021	Bedroom	37	110	127	.32	105	Fail
C 11/1 001	Living Dears / Kitche	77	F0	07	N1/A	NI / A	
U_LKI_021	LIVING ROOM / KITCHEN	5/	59	95	IN/A	IN/A	Fall
C_LK1_02 2	Living Room / Kitchen	48	59	95	N/A	N/A	Fail
C K2 021	Living Room / Kitchen	25	59	132	Ν/Δ	Ν/Δ	Fail
	Living Doors / Kitchell	70	55	00		N / A	
LK2_02.2	Living Room / Kitchen	30	59	99	N/A	N/A	⊢aii
C_LK2_02 3	Living Room / Kitchen	29	59	120	N/A	N/A	Fail
	Bedroom	28	110	116	30	129	Fail
	Dedreas	20	110	100	70	123	:I
D_RD_02.10	вearoom	28	110	126	52	//	⊢ail
D BD 0211	Bedroom	32	110	218	32	75	Fail
D BD 0212	Bedroom	32	110	1/1	30	101	Epil
	Bedroom	52	110	141	52	101	1 011
D_BD_0213	Bedroom	- 52	110	161	32	87	Fail
D BD 0214	Bedroom	32	110	200	32	65	Fail
	Bodroom	20	110	116	72	172	Epil
<u></u> 2	Bedroom	20	110	116	32	132	Fall
D_BD_02 3	Bedroom	16	110	138	32	137	Fail
D BD 024	Bedroom	16	110	105	32	125	Fail
	Bedroom	16	110	202	72	151	Fail
D_BD_02 3	Bedroom	10	IIO	202	JZ	131	Fall
D_BD_02 6	Bedroom	28	110	184	32	141	Fail
D BD 027	Bedroom	16	110	148	.32	11.3	Fail
<u> </u>	Dedreem	10	110	017	72	110	Fail
02.8	Bedroom	10	110	213	32	118	Fall
D_BD_02 9	Bedroom	16	110	126	32	85	Fail
D BS 021	Bedroom	16	110	217	32	104	Fail
<u> </u>	Bedroom (16)	10	10	217	52	104	
	TIVING ROOM / KITChen	16	59	91	IN/A	N/A	Fall
	Enting Room / Recencer				,		
D LK1 02 2	Living Room / Kitchen	16	59	143	N/A	N/A	Fail
D_LK1_02.2	Living Room / Kitchen	16 28	59 59	143	N/A N/A	N/A N/A	Fail Fail
D_LK1_02 2 D_LK1_02 3	Living Room / Kitchen Living Room / Kitchen	16 28	59 59	143 90	N/A N/A	N/A N/A	Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16	59 59 59	143 90 128	N/A N/A N/A	N/A N/A N/A	Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32	59 59 59 59 59	143 90 128 144	N/A N/A N/A N/A	N/A N/A N/A N/A	Fail Fail Fail Fail
D_LK1_02_2 D_LK1_02_3 D_LK2_02_1 D_LK2_02_2 D_LK2_02_3	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34	59 59 59 59 59 59	143 90 128 144	N/A N/A N/A N/A	N/A N/A N/A N/A	Fail Fail Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3	Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34	59 59 59 59 59 59	143 90 128 144 134	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Fail Fail Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1	Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28	59 59 59 59 59 59 59	143 90 128 144 134 123	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	Fail Fail Fail Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1 D_LK3_02 2	Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16	59 59 59 59 59 59 59 59 59	143 90 128 144 134 123 146	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	Fail Fail Fail Fail Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1 D_LK3_02 2 F_BD_02 1	Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16 7	59 59 59 59 59 59 59 59 110	143 90 128 144 134 123 146 133	N/A N/A N/A N/A N/A N/A N/A 32	N/A N/A N/A N/A N/A N/A 88	Fail Fail Fail Fail Fail Fail Fail
D_LK1_02_2 D_LK1_02_3 D_LK2_02_1 D_LK2_02_3 D_LK2_02_3 D_LK3_02_1 D_LK3_02_2 E_BD_02_1	Living Room / Kitchen Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7	59 59 59 59 59 59 59 59 59 110	143 90 128 144 134 123 146 133	N/A N/A N/A N/A N/A N/A N/A 32 72	N/A N/A N/A N/A N/A N/A N/A 88	Fail Fail Fail Fail Fail Fail Fail Fail
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D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BS 02 1 G _ LK2 02 1 I _ BD 02 1	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7 7 7 7 11 11 7	59 59 59 59 59 59 59 100 110 110 110 110 59 59 110 110 59 59 110 59 110 110 59 110 110 59 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79	N/A 32 32 32 32 32 N/A N/A 32 32 32 32 32 N/A 32 32	N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A 99 101 N/A 58	Fail Fail Fail Fail Fail Fail Fail Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1 D_LK3_02 1 D_LK3_02 2 E_BD_02 2 E_BD_02 2 E_BD_02 2 E_LK1_02 1 E_LK2_02 1 G_BD_02 1 G_BD_02 1 I_BD_02 2	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7	59 59 59 59 59 59 59 110 110 10 59 59 10 110 10 59 110 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108	N/A N/A N/A N/A N/A N/A N/A 32 32 32 32 N/A N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 58 105	Fail Fail Fail Fail Fail Fail Fail Fail
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D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BS 02 1 G _ LK2 02 1 I _ BD 02 2 I _ BD 02 3 	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7	59 59 59 59 59 59 59 100 110 59 59 100 100 59 59 100 100 100 110 110 110 110 110 110 110 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108 169	N/A N/A N/A N/A N/A N/A N/A 32 32 32 N/A N/A 32 32 N/A 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77	Fail Fail Fail Fail Fail Fail Fail Fail
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D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BS 02 1 I _ BD 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 3 I _ BD 02 4 I _ BD 02 5	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7	59 59 59 59 59 59 59 100 110 110 110 110 59 59 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 66 79 108 169 185 147	N/A N/A N/A N/A N/A N/A N/A 32 32 32 N/A N/A 32 32 N/A 32 32 N/A 32 32 32 32 32 32 32 32 32 32 32 32 32	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 111	Fail Fail Fail Fail Fail Fail Fail Fail
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D _ LK1_02 2 D _ LK1_02 3 D _ LK2_02 1 D _ LK2_02 3 D _ LK3_02 1 D _ LK3_02 2 E _ BD_02 2 E _ BD_02 3 E _ LK1_02 1 E _ LK2_02 1 G _ BD_02 2 G _ BS_02 1 G _ LK2_02 1 I _ BD_02 2 I _ BD_02 2 I _ BD_02 4 I _ BD_02 5 I _ BD_02	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7 9	59 59 59 59 59 59 59 59 59 59 100 110 110 59 59 59 59 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 77 123 111 108	Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BS 02 1 G _ LK2 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 4 I _ BD 02 6 I _ BD 02 7	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9	59 59 59 59 59 59 59 100 110 59 59 100 110 59 59 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 120	N/A N/A N/A N/A N/A N/A N/A N/A 32	N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 111 108 111	Fail
D _ LK1_02 2 D _ LK1_02 3 D _ LK2_02 1 D _ LK2_02 2 D _ LK3_02 1 D _ LK3_02 1 D _ LK3_02 2 E _ BD_02 2 E _ BD_02 2 E _ BD_02 2 E _ LK1_02 1 G _ BD_02 1 G _ BD_02 1 G _ BD_02 1 I _ BD_02 2 I _ BD_02 2 I _ BD_02 3 I _ BD_02 4 I _ BD_02 7 I _ LK1_02 1	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 7 7	59 59 59 59 59 59 59 59 59 100 110 59 59 100 100 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A 99 101 N/A 58 105 77 123 105 77 123 111 108 111 N/A</td><td>Fail</td></tr<>	N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A 99 101 N/A 58 105 77 123 105 77 123 111 108 111 N/A	Fail
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D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 2 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 2	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Bedroom Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 7	59 59 59 59 59 59 59 59 59 59 59 59 59 59 110 110 59 59 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 122 102	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 101 N/A 105 77 123 111 108 111 N/A N/A N/A</td><td>Fail</td></tr<>	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 101 N/A 105 77 123 111 108 111 N/A N/A N/A	Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BS 02 1 G _ LK2 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 3 I _ LK2 02 3 I _ LK2 02 3 I _ LK2 02 1 I _ LK2 02 3 I _ LK2 02 3	Living Room / Kitchen Living Room / Kitchen Bedroom / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 9 7 7 7 7 9 9 9 9 9 9 9 9 9 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 100 110 59 59 110 110 110 110 110 110 110 110 59 59 59 59 59 59 59 59 59 59 59 59 59	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 120 102 103 102 102 102 102 102 102 103	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 111 108 111 108 111 N/A N/A N/A N/A N/A</td><td>Fail</td></tr<>	N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 111 108 111 108 111 N/A N/A N/A N/A N/A	Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1 D_LK3_02 1 D_LK3_02 2 E_BD_02 2 E_BD_02 2 E_BD_02 2 E_LK1_02 1 G_BD_02 1 G_BD_02 1 G_LK2_02 1 I_BD_02 2 I_BD_02 3 I_BD_02 4 I_BD_02 5 I_BD_02 7 I_LK1_02 1 I_LK2_02 1 I_LK2_02 1 I_LK2_02 2 I_LK2_02 3 I_LK2_02 1 I_LK2_02 2 I_LK2_02 2 I_LK2_02 3 I_LK2_02 2 I_LK2_02 2 I_LK2_02 3 I_LK2_02 2 I_LK2_02 3 I_LK2_02 3 I_LK	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 7 7 7 7 9 9 9 7 7 9	59 59 59 59 59 59 59 59 59 100 110 59 59 100 110 59 59 59 59 59 59 59 59 59 59 59 </td <td>143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 109 144</td> <td>N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 105 77 123 111 108 111 N/A N/A N/A N/A</td><td>Fail Fail Fail</td></tr<></td>	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 109 144	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 105 77 123 111 108 111 N/A N/A N/A N/A</td><td>Fail Fail Fail</td></tr<>	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 105 77 123 111 108 111 N/A N/A N/A N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BS 02 1 G _ BS 02 1 I _ BD 02 3 I _ BD 02 3 I _ BD 02 4 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 2 I _ LK2 02 2 I _ LK2 02 2 I _ LK2 02 1 J _ LK2 02 2 I _ LK2 02 1 J _ LK2 02 1 J _ LK2 02 2 J _ LK2 02 3 J _ BD 02 1 J _ LK2 02 3 J _ BD 02 1	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Living Room / Kitchen Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	59 59 59 59 59 59 59 59 59 100 110 100 100 100 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 103	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32	N/A 132 135 N/A N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A N/A	Fail
D_LK1_02 2 D_LK1_02 3 D_LK2_02 1 D_LK2_02 2 D_LK2_02 3 D_LK3_02 1 D_LK3_02 2 E_BD_02 1 E_BD_02 2 E_BD_02 3 E_LK1_02 1 G_BD_02 1 G_BD_02 1 I_BD_02 4 I_BD_02 6 I_BD_02 6 I_BD_02 7 I_LK1_02 1 I_LK2_02 1 I_LK2_02 1 I_LK2_02 2 I_LK2_02 1 I_LK2_02 1 I_L	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 9 9 7 7 7 7 9	59 59 59 59 59 59 59 59 59 100 110 59 59 59 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 122 102 109 144 252	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32	N/A 132 135 N/A N/A 99 101 N/A S8 105 77 123 111 108 111 N/A N/A N/A N/A 104 105 105 105 105 107 108 111 N/A N/A N/A N/A N/A N/A 111 112 1142	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 1 J _ BD 02 1 J _	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 109 144 252 177	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 101 N/A 105 77 123 111 108 111 N/A N/A N/A N/A 99 101 N/A 99 101 N/A</td><td>Fail Fail Fail</td></tr<>	N/A N/A N/A N/A N/A N/A N/A 88 132 135 N/A N/A 99 101 N/A 99 101 N/A 58 105 77 123 101 N/A 105 77 123 111 108 111 N/A N/A N/A N/A 99 101 N/A 99 101 N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BD 02 1 G _ LK2 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 6 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 2 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 1 I _ LK2 02 2 I _ LK2 02 3 J _ BD 02 10 J _ BD 02 10 J _ BD 02 0	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom Bedroom / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom / Kitchen Dedroom / Kitchen Living Room / Kitchen Living Room / Kitchen Dedroom / Kitchen	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 100 110 100 100 100 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 122 102 109 144 252 177	N/A 32	N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 I _ LK2 02 3 J _ BD 02 10 J _ BD 02 11 J _ BD 02 2	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom / Kitchen Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 100 110 110 110 59 59 59 59 100 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 122 102 109 144 252 177 104	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A N/A N/A 132 135 N/A 99 101 N/A 58 105 77 123 111 N/A N/A N/A N/A 108 111 N/A N/A N/A 108 111 N/A N/A <tr< td=""><td>Fail Fail Fail</td></tr<></td></tr<>	N/A N/A N/A N/A N/A N/A N/A N/A N/A 132 135 N/A 99 101 N/A 58 105 77 123 111 N/A N/A N/A N/A 108 111 N/A N/A N/A 108 111 N/A N/A <tr< td=""><td>Fail Fail Fail</td></tr<>	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BD 02 1 G _ BD 02 1 G _ BD 02 1 I _ BD 02 3 I _ BD 02 3 I _ BD 02 4 I _ BD 02 5 I _ BD 02 5 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 1 I _ LK2 02 1 J _ BD 02 3 J _ BD 02 1 J _ BD 02 2 J _ BD 02 3 J _ DD	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 110 110 59 59 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 109 144 252 177 104	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A</td><td>Fail Fail Fail</td></tr<>	N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BS 02 1 G _ BS 02 1 G _ BD 02 1 J _ BD 02 4 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 2 I _ BD 02 6 I _ BD 02 7 I _ LK1 02 1 I _ LK2 02 1 I _ LK2 02 1 J _ BD 02 2 J _ BD 02 1 J _ BD 02 1 J _ BD 02 2 J _ BD 02 1 J _ BD 02 1 J _ BD 02 2 J _ BD 02 2 J _ BD 02 4	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 100 110 59 59 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 122 102 109 144 252 177 104 134	N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <tr< td=""><td>N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 132 135 N/A N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A 102 80</td><td>Fail Fail Fail</td></tr<>	N/A 132 135 N/A N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A 102 80	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 3 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BD 02 2 G _ BD 02 1 G _ BS 02 1 G _ BS 02 1 I _ BD 02 2 I _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 J _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ LK2 02 1 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 2 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 2 J _ BD 02 2 J _ BD 02 4 J _ BD 02 4 J _ BD 02 2 J _ BD 02 4 J _ D	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 110 </td <td>143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 109 144 252 104 134 177 104 134 178</td> <td>N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 32 <t< td=""><td>N/A N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A N/A 105 107 123 111 108 111 108 111 108 111 108 111 108 111 108 111 108 111 108 112 124 105 102 102 <tr< td=""><td>Fail Fail Fail</td></tr<></td></t<></td>	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 109 144 252 104 134 177 104 134 178	N/A 32 <t< td=""><td>N/A N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A N/A 105 107 123 111 108 111 108 111 108 111 108 111 108 111 108 111 108 111 108 112 124 105 102 102 <tr< td=""><td>Fail Fail Fail</td></tr<></td></t<>	N/A 99 101 N/A 58 105 77 123 111 108 111 N/A N/A N/A N/A 105 107 123 111 108 111 108 111 108 111 108 111 108 111 108 111 108 111 108 112 124 105 102 102 <tr< td=""><td>Fail Fail Fail</td></tr<>	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 3 E _ LK1 02 1 E _ ED 02 3 E _ LK2 02 1 G _ BD 02 1 G _ BD 02 1 G _ BD 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 4 I _ BD 02 5 I _ BD 02 1 I _ LK2 02 3 J _ BD 02 10 J _ BD 02 4 J _ BD 02 4 J _ BD 02 1 J _ BD 02 4 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 3 J _ BD 02 4 J _ BD 02 4 J _ BD 02 5 J	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 100 110 59 59 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 122 102 102 102 102 102 103 144 252 177 104 134 178 150	N/A 32	N/A B <t< td=""><td>Fail Fail Fail</td></t<>	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 1 J _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 J _ BD 02 2 I _ LK2 02 1 J _ BD 02 2 I _ LK2 02 1 J _ BD 02 3 J _ BD 02 4 J _ BD 02 3 J _ BD 02 5 J _ BD 02 6 J _ BD 02 3 J _ BD 02 6 J _ BD 02 5 J _ BD 02 7 J _ BD 02 1 J _ BD 02 1 J _ BD 02 1 J _ BD 02 1 J _ BD 02 3 J _ BD 02 5 J _ BD 02 6 J _ BD 02 5 J _ D 02 5 J _	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 59 110	143 90 128 144 134 123 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 144 122 102 109 144 252 177 104 134 150 197	N/A 32	N/A 99 101 N/A 99 101 N/A 105 77 123 111 108 111 N/A N/A N/A 88 105 107 123 111 N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BD 02 1 G _ BD 02 1 G _ BD 02 1 G _ BD 02 1 I _ BD 02 2 I _ BD 02 3 I _ BD 02 4 I _ BD 02 4 J _ BD 02 3 J _ BD 02 1 J _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 J _ BD 02 4 J _ BD 02 3 J _ BD 02 1 J _ BD 02 3 J _ BD 02 1 J _ BD 02 1 J _ BD 02 3 J _ BD 02 1 J _ BD 02 3 J _ BD 02 1 J _ BD 02 3 J _ BD	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 7 7 7 9	59 59 59 59 59 59 59 59 59 59 59 59 59 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 109 144 252 177 104 134 178 150 197 214	N/A 32	N/A	Fail Fail
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 2 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 1 E _ BD 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 G _ BS 02 1 G _ BS 02 1 G _ BS 02 1 G _ BS 02 1 I _ BD 02 4 I _ BD 02 6 I _ BD 02 1 I _ LK2 02 1 J _ BD 02 2 J _ BD 02 1 J _ BD 02 4 J _ BD 02 5 J _ BD 02 6 J _ BD 02 6 J _ BD 02 5 J _ BD 02 6 J _ BD 02 7 J _ D 02 6 J _ BD 02 7 J _ D	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom Bedrom Bedroom Bed	16 28 16 32 34 28 16 7 7 7 7 7 7 7 7 7 7 9	59 100 110	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 122 102 102 102 102 102 104 134 178 150 197 214 202	N/A 32	N/A 132 135 N/A 99 101 N/A 99 101 N/A S8 105 77 123 111 108 111 N/A N/A N/A N/A 105 107 142 102 80 122 137 146 177	Fail Fail <t< td=""></t<>
D _ LK1 02 2 D _ LK1 02 3 D _ LK2 02 1 D _ LK2 02 3 D _ LK2 02 3 D _ LK3 02 1 D _ LK3 02 2 E _ BD 02 2 E _ BD 02 3 E _ LK1 02 1 E _ LK2 02 1 G _ BD 02 2 G _ BD 02 1 G _ BS 02 1 G _ BS 02 1 G _ LK2 02 1 I _ BD 02 2 I _ BD 02 2 I _ BD 02 4 I _ BD 02 5 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ LK2 02 1 I _ BD 02 2 I _ BD 02 6 I _ BD 02 7 I _ LK2 02 1 J _ BD 02 2 J _ BD 02 4 J _ BD 02 6 J _ BD 02 7 J _ D 02 7 J _	Living Room / Kitchen Living Room / Kitchen Bedroom Bedroom Bedroom / Kitchen Living Room / Kitchen Bedroom	$\begin{array}{c} 16 \\ 28 \\ 16 \\ 32 \\ 34 \\ 28 \\ 16 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ $	59 59 59 59 59 59 59 59 59 59 59 59 59 110 <	143 90 128 144 133 146 133 147 121 95 138 114 120 66 79 108 169 185 147 115 125 142 102 102 102 104 134 178 150 197 214 266	N/A 32	N/A 99 101 N/A 99 101 N/A 99 101 N/A N/A <tr< td=""><td>Fail Fail Fail <t< td=""></t<></td></tr<>	Fail Fail <t< td=""></t<>

J K1 021	Living Room / Kitchen	9	59	124	N/A	N/A	Fail
1 K2 021	Living Room / Kitchen	9	59	87	N/A	N/A	Fail
<u> </u>	Living Deem / Kitchen	0	55	100			Fail
<u>J_LK2_02.2</u>	Living Room / Kitchen	9	59	102	IN/A	IN/A	Fall
	Living Room / Kitchen	9	59	156	N/A	N/A	Fail
J_LK3_02.2	Living Room / Kitchen	9	59	85	N/A	N/A	Fail
K BD 021	Bedroom	10	110	588	32	210	Fail
K BD 022	Bedroom	10	110	294	32	18.3	Fail
	Bodroom	10	110	740	72	217	Fail
K_BD_02.3	Bedroolli	10	110	349	32	213	Fall
K_BD_02.4	Bedroom	10	110	925	32	249	Fail
K_BD_02 5	Bedroom	10	110	203	32	82	Fail
K BD 026	Bedroom	10	110	168	32	90	Fail
K BD 027	Bedroom	10	110	234	32	80	Fail
K BS 021	Bedroom	10	110	160	72	07	Fail
K_B3_021	Bedroolli	10	110	109	32	0/	Fall
K_LKI_021	Living Room / Kitchen	10	59	142	N/A	N/A	Fail
K_LK1_02 2	Living Room / Kitchen	10	59	164	N/A	N/A	Fail
K_LK2_021	Living Room / Kitchen	10	59	167	N/A	N/A	Fail
K LK2 02 2	Living Room / Kitchen	10	59	162	N/A	N/A	Fail
K K2 02 3	Living Poom / Kitchen	10	59	218	N/A	Ν/Λ	Fail
<u>02 5</u>	Elving Room / Ritchen	10	110	210	70	100	
L_BD_021	Bedroom	12	110	686	32	168	Fall
L_BD_02 2	Bedroom	12	110	371	32	166	Fail
L_BD_02 3	Bedroom	12	110	421	32	188	Fail
L BD 024	Bedroom	12	110	863	32	189	Fail
L K2 021	Living Room / Kitchen	12	59	163	Ν/Δ	Ν/Δ	Fail
	Living Room / Kitchen	12	50	160	N/A	N/A	Eail
L_LK2_U22		12	59	100	IN/A	IN/ A	Fall
M_BD_021	Bedroom	4	110	143	52	135	⊢ail
M_BD_0210	Bedroom	4	110	192	32	119	Fail
M_BD 02 11	Bedroom	4	110	147	32	114	Fail
M BD 0212	Bedroom	4	110	93	32	115	Fail
M BD 02 2	Bedroom		110	167	32	1/17	Fail
	Dedroom	-+	110	107	JZ 70	140	Fdll Fall
M_BD_02.3	Bearoom	4	110	166	52	142	Fail
M_BD_02 4	Bedroom	4	110	108	32	126	Fail
M_BD_02 5	Bedroom	4	110	165	32	139	Fail
M BD 026	Bedroom	4	110	165	32	139	Fail
M RD 027	Bedroom	4	110	161	32	178	Fail
	Bodroom		110	170	70	130	
M_BD_02.8	Bedroom	4	110	1/8	32	89	Fall
MBD02 9	Bedroom	4	110	141	32	95	Fail
M_LK1_021	Living Room / Kitchen	4	59	91	N/A	N/A	Fail
M LK1 02 2	Living Room / Kitchen	4	59	128	N/A	N/A	Fail
M K1 02 3		1	59	158	N/A	N/A	Fail
M LK1 02 4	Living Room / Kitchen	4	59	100			T all
M_LKI_02.4	Living Room / Kitchen	4	59	165	N/A	N/A	Fall
M_LK2_021	Living Room / Kitchen	4	59	119	N/A	N/A	Fail
M_LK3_021	Living Room / Kitchen	4	59	128	N/A	N/A	Fail
M LK3 02 2	Living Room / Kitchen	4	59	154	N/A	N/A	Fail
N BD 021	Bedroom	7	110	142	32	70	Fail
	Bedroom	7	110	194	32	06	Fail
<u>N_BD_02.2</u>	Bedroom	/	110	124	32	96	Fall
N_BD_02 3	Bedroom	7	110	115	32	112	Fail
N_BD_02 4	Bedroom	7	110	180	32	79	Fail
N BD 025	Bedroom	7	110	209	32	130	Fail
N BD 026	Bedroom	7	110	299	32	152	Fail
N_DD_02.0	Dedroom	7	110	2007	54 0	132	T all
<u>N_BD_027</u>	Bedroom	7	110	203	32	149	Fall
N_LK2_021	Living Room / Kitchen	7	59	77	N/A	N/A	Fail
N_LK2_02 2	Living Room / Kitchen	7	59	134	N/A	N/A	Fail
N LK3 021	Living Room / Kitchen	7	59	121	N/A	N/A	Fail
0 BD 021	Bedroom	7	110	145	32	65	Fail
	Bedroom	7	110	106	32	102	Fail
	Bedroom	7	110	04	JZ 70	102	raii raii
0_BD_02.3	Bearoom	/	110	94	52	66	Fall
O_BD_02 4	Bedroom	7	110	145	32	108	Fail
O_BD_02 5	Bedroom	7	110	145	32	107	Fail
O_LK1 021	Living Room / Kitchen	7	59	145	N/A	N/A	Fail
0 K2 021	Living Room / Kitchen	7	59	83	ν N/Δ	Ν/Δ	Fail
	Living Room / Kitcher	7	50	67	NI/A	Ν/Λ	Eail
0_LK2_U2 2	Living Room / Kitchen	, ,	33	100	IN/ A		
P_BD_021	Bearoom	6	110	100	52	99	
P_BD_02 2	Bedroom	6	110	118	32	131	Fail
P_BD_02 3	Bedroom	6	110	165	32	115	Fail
P BD 02 4	Bedroom	6	110	201	32	79	Fail
P RD 025	Bedroom	6	110	146	32	27 27	Fail
	Bodroom	z	110	220	70	05	Fail
	Beuroom	3	110	229	32	80	
P_BD_02 7	Bedroom	5	110	163	32	103	Fail
P_BD_02.8	Bedroom	3	110	128	32	125	Fail
P BD 029	Bedroom	3	110	58	32	85	Fail
P k1 021	Living Room / Kitchen	6	59	143	Ν/Δ	N/A	Fail
	Living Room / Kitchen	z	50	1/7	N/A	N/A	Eail
P_LKI_022	Living Room / Kitchen	3	59	143	IN/A	IN/A	
P_LK2_021	Living Room / Kitchen	6	59	154	N/A	N/A	Fail
P_LK2_02 2	Living Room / Kitchen	6	59	128	N/A	N/A	Fail
P_LK3 021	Living Room / Kitchen	3	59	190	N/A	N/A	Fail
R BD 021	Bedroom	6	110	147	.32	, 77	Fail
	Bedroom	4	110	200	70	120	Eail
			110	200	JZ 70	123	Faii
R_RD_02.1	Bearoom	4	110	159	52	116	Fail
R02 2	Bedroom	6	110	107	32	114	Fail
R_BD_02 3	Bedroom	6	110	184	32	114	Fail
R BD 024	Bedroom	6	110	181	32	87	Fail
	Bedroom	6	110	162	32	176	Fail
	Dedreas	6	110	102	JZ 70	140	- all
K_BD_02.6	Bearoom	0	110	263	52	149	
R_BD_02 7	Bedroom	6	110	223	32	164	Fail

R_BD_02 8	Bedroom	4	110	244	32	141	Fail
R_BD_02 9	Bedroom	4	110	269	32	133	Fail
R_LK1_021	Living Room / Kitchen	4	59	127	N/A	N/A	Fail
R_LK2_021	Living Room / Kitchen	6	59	78	N/A	N/A	Fail
R_LK2_02 2	Living Room / Kitchen	6	59	100	N/A	N/A	Fail
R_LK3_021	Living Room / Kitchen	6	59	104	N/A	N/A	Fail
R_LK3_02 2	Living Room / Kitchen	4	59	166	N/A	N/A	Fail

Table 11.4 - Detailed overheating results for the domestic areas using the DSY3 weather data

11.3.3 Non-domestic Overheating Results DSY2 & DSY3

The results for the overheating assessment of the non-domestic areas using the London Heathrow DSY2 and DSY3, 2020s, high emissions, 50% percentile weather file are presented in the tables below.

DSY2						
	Operative temperature >24	Operative temperature >25	Operative temperature >26	Operative temperature >27	Operative temperature >28	Result
Restaurant kitchen	0	0	0	0	0	Pass
Restaurant dining	2	0	0	0	0	Pass
Supermarket display	1,572	1,374	10	0	0	Pass
Nursery	166	0	0	0	0	Pass
Fitness centre	342	0	0	0	0	Pass
Coffee shop	1,221	0	0	0	0	Pass
Coffee shop kitchen	0	0	0	0	0	Pass
Residential meeting space	1,792	0	0	0	0	Pass
Residents' lounge	1,959	0	0	0	0	Pass
Coffee shop	2,396	364	0	0	0	Pass
Coffee shop food prep	0	0	0	0	0	Pass
Hair dresser	882	598	21	0	0	Pass
Dry cleaner	1,221	263	0	0	0	Pass
Workshare hub	1,321	632	0	0	0	Pass
Concierge	1,569	0	0	0	0	Pass
Maintenance office	1,085	914	2	0	0	Pass
Retail	893	402	1	0	0	Pass

Residential	1634	0	0	0	0	Dace
meeting space	1,004	U	U	U	U	1 0 3 3
Residents'	1009	0	0	0	0	Dace
lounge	1,900	0	0	0	U	r ass
Coffee shop	2,276	366	1	0	0	Pass
Coffee shop	0	0	0	0	0	Dace
food prep	0	0	0	0	0	Fass
Hair dresser	817	673	15	0	0	Pass
Dry cleaner	1,067	421	0	0	0	Pass
Workshare hub	1,263	700	0	0	0	Pass
Concierge	1,487	0	0	0	0	Pass
Maintenance	1,097	921	0	0	0	Pass
Retail	849	467	0	0	0	Pass

Table 11.6 - Overheating results for the non-domestic areas using the DSY2 weather data for conditioned buildings

Table 11.5 - Overheating results for the non-domestic areas using the DSY2 weather data for conditioned buildings

DSY3						
	Operative temperature >24	Operative temperature >25	Operative temperature >26	Operative temperature >27	Operative temperature >28	Result
Restaurant kitchen	0	0	0	0	0	Pass
Restaurant dining	0	0	0	0	0	Pass
Supermarket display	1,468	1,447	0	0	0	Pass
Nursery	177	0	0	0	0	Pass
Fitness centre	441	0	0	0	0	Pass
Coffee shop	1,198	0	0	0	0	Pass
Coffee shop kitchen	0	0	0	0	0	Pass

Area-weighted Average Actual and Notional Cooling Demands for Non-domestic Buildings 11.4



Actual Annual Demand: Bar-Restaurant



Actual Annual Demand: Supermarket



Notional Annual Demand: Supermarket



	Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Displaced Electricity		Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Displ Elect
Demand (kWh/m ²)	5.66	139.77	4.86	53.35	1.23	158.51	0.00	Demand (kWh/m ²)	4.30	148.89	4.11	53.55	1.23	158.51	0.



Displaced Electricity 0.00

laced tricity



Actual Annual Demand: Fitness Centre



Notional Annual Demand: Fitness Centre 100 -



	Heating	Cooling	Auvilianu	Lighting	DHW	Equipment	Displaced		Heating	Cooling	Auvilianu	Lighting	DHW	Fauinment	D
	neuting	cooning	Auxinury	Lighting	DITEV	Lquipment	LIECUTURY		neuting	cooning	Auxinury	Lighting	DIIIV	Lquipment	L
Demand (kWh/m ²)	3.15	17.11	32.47	14.67	0.00	84.59	0.00	Demand (kWh/m ²)	3.16	22.51	23.79	12.74	0.00	84.59	



0.00

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Heating Cooling Auxiliary Lighting DHW Equipment Displaced Electricty

Displaced Electricity



Actual Annual Demand: Residents lounge



Notional Annual Demand: Residents lounge



Auxiliary _____ Lighting

							Displaced								
-	Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Electricity		Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	E
Demand (kWh/m ²)	0.16	67.17	7.58	65.50	0.63	28.79	0.00	Demand (kWh/m ²)	1.73	63.62	6.41	60.23	0.63	28.79	

Heating

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Cooling



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DHW Equipment Displaced Electricty

Displaced Electricity



Actual Annual Demand: Hair dresser



Notional Annual Demand: Hair dresser



							Displaced								D
	Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Electricity		Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	E
Demand (kWh/m ²)	1.16	62.41	4.90	66.80	1.70	20.26	0.00	Demand (kWh/m ²)	3.45	45.93	4.15	53.39	1.70	20.26	



0.00

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Heating Cooling Auxiliary 🛄 Lighting 🛄 DHW 🥅 Equipment 📰 Displaced Electricty

Displaced Electricity

Actual Annual Demand: Dry cleaner



4.90

66.53

1.70

20.26

0.00

Notional Annual Demand: Dry cleaner



Actual Annual Demand: Workshare hub

57.96

Heating

0.57

Demand (kWh/m²)



Notional Annual Demand: Workshare hub 80 -



	Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Displaced Electricity		Heating	Cooling	Auxiliary	Lighting	DHW	Equipment
Demand (kWh/m ²)	2.44	49.63	5.66	41.97	4.69	62.34	0.00	Demand (kWh/m ²)	7.37	42.84	4.79	27.59	4.69	62.34

0.00

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-	-	-	-	

Heating Cooling Auxiliary Lighting DHW Equipment Displaced Electricty

Displaced Electricity





Auxiliary

7.58

Lighting

66.42

DHW

0.63

Equipment

28.78

Electricity

0.00



Actual Annual Demand: Maintenance office

Cooling

74.54

Heating

0.63

Demand (kWh/m²)



Notional Annual Demand: Maintenance office 80 -

Heating



							Displaced							
-	Heating	Cooling	Auxiliary	Lighting	DHW	Equipment	Electricity		Heating	Cooling	Auxiliary	Lighting	DHW	Equipment
Demand (kWh/m ²)	5.14	49.38	5.66	41.40	4.69	62.34	0.00	Demand (kWh/m ²)	10.27	44.08	4.79	27.23	4.69	62.34

Energy Assessment

0.00

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Cooling 🔚 Auxiliary 🦳 Lighting 🔚 DHW 🧱 Equipment 📰 Displaced Electricty

Displaced Electricity





11.5 Communication with Local Borough and/or Local Heat Network Operators

chapmanbdsp has contacted Barnet's Energy Resource Manager (Nigel Bell) to enquire about the potential of connecting to this network. As the email correspondence shows, he confirmed the complexity brought by the distance and having the M1 as an obstacle. He also mentioned not being aware of any other network on Mill Hill's side of the M1, recommending us to look in the London Heat Map. As the London Heat Map image shows, there are no other networks in the vicinity.

Nonetheless, Pentavia Mill Hill's Energy Centre is being equipped with connection points that will allow the development to connect to a district network, shall one become available in the future. The location, size and layout of the plantroom as well as the set-up of the building heating system (i.e. communal heating system with single plantroom, single capped off pipework connection point, space for heat exchanger) allows for the easy connection to such a network.

From:	Bell, Nigel
To:	Bandler, John (Capita)
Cc:	Gary Wedlake; Paul Hussey; Joanna Conceicao; john.mitri@cpcprojectservice
Subject:	FW: Mill Hill - Availability of Heat Networks
Date:	14 December 2016 18:37:38
Attachments:	72df6397-7261-4e2e-83ad-beb9c08102fb.png
	imageccade0.PNG
	SKMBT_C364e16121217470.pdf

Hi John,

Trust you are keeping well.

Are you aware of any potential heating networks in the vicinity of this proposed housing development which appears to occupy the site of the former Pentavia Retail Park at Mill Hill adjacent the Watford Way?

Gary - As you mention I am aware of the Grahame Park District Heating Scheme on the opposite side of the M1 which is currently part of a major regeneration scheme and as noted is some distance away.

On the development side of the M! I am not aware of any significant schemes currently operating in the vicinity although if you have not already done so it may be worthwhile referring to the GLA London Heat Map.

https://www.london.gov.uk/what-we-do/environment/energy/london-heat-map/view-london-heat-map

John - your thoughts in respect to current initiates in the area would be helpful.

Kind Regards

Nigel

Nigel Bell **Energy Resource Manager Customer and Support Group** London Borough of Barnet **Barnet House** 1255 High Road Whetstone London N20 0EJ

Tel: 020 8359 4571 Mobile: 07958 796 501 Barnet Online: www.barnet.gov.uk

please consider the environment - do you really need to print this email?

From: Gary Wedlake [mailto:Gary.Wedlake@chapmanbdsp.com] Sent: 12 December 2016 17:08 To: Bell, Nigel Cc: Paul Hussey; Joanna Conceicao; 'john.mitri@cpcprojectservices.com' Subject: Mill Hill - Availability of Heat Networks

Hi Nigel

We are looking at a proposed housing development in Mill Hill of 695 properties.

es.com

Could you advise if there are any existing district heating networks within the vicinity that would be suitable for the connection of this size of development. Our initial investigations indicated that the only possible heat network was on the other side of the M1 and hence provide difficulties to connect.

If no suitable existing heat networks are available we would be propose an on site energy centre with CHP and Boiler provision for a localised on site district heating network for heating and hot water services. The system would be left with the facility to connect on to any future district heating network that becomes available in the area.

Please would you advise if there are any existing suitable district heating opportunities in this area. I attach a location plan for the project. If you have any queries please do not hesitate to contact me.

Thanks

Gary

Gary Wedlake Associate Director

Chapman BDS

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11.6 Energy Centre

Preliminary Energy Centre sizing analysis produces a requirement for circa 250 m² as shown in the illustrations on the right.

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Plantroom 17200 mm wide x 14700 mm deep (overall)





Figure 11.1 - Preliminary plant room layout



Figure 11.2 - 3D view of the preliminary plant room layout



Preliminary Demand Profiles & CHP Assessment 11.7

Estimating annual energy demand/consumption

For the purposes of the preliminary CHP analysis, the following empirical benchmarks have been used:

Usage	Heat (including DHW)	Electricity	Notes/Sources:
	kWh/m2/an	kWh/m2/an	
Residential	50 (55% of which DHW)	43	Based on approx. primary energy targets for residential from literature
Commercial [A1, A3-A4,	120	95	Allowance - exact mix of
D1, C3]	(80% of which DHW)		uses TBC
Car Park	0	20	TM46
Plant/Refuse/Bike Store	0	20	Allowance - as Car Park

Table 11.7 - Benchmarks for different categories of usage used to generate synthetic load profiles

The specific benchmark figures are intended to be realistic rather than overly optimistic in terms of performance (especially given the so-called 'performance gap' between operation and design), but equally to allow for improved energy standards as a result of better specification and higher build quality in-line with improvements to the Building Regulations.

As noted above, annual hourly load profiles for heat and electricity demand have been generated for (i) the residential areas, and (ii) all other uses.

While additional load profiles could, in principle, have been created for each type of commercial areas to reflect the different planning classes, specific usages for these commercial areas have yet to be fully defined and they constitute a small fraction of the total area of the scheme.

Residential benchmarks

In relation to new-build dwellings, there is very little solid published information available on the range of actual energy consumption in use (let alone that for medium-rise apartment blocks which characterise the Pentavia scheme). For instance, the information in CIBSE Guide F and TM46 is somewhat out of date and does not specifically address residential use anyway (other than quasi-residential uses such as hostels, nursing homes etc.).

In terms of primary energy, example benchmarks include:

Benchmark	Figure (Primary Energy)
Dwellings built to Passivhaus Standards	\leq 120kWh/m2/yr
	(\leq 15kWh/m2/yr for space heating, etc.)
AECB Silver Standard	\leq 135 kWh/m2/yr
	(\leq 40kWh/m2/yr for heating + cooling, etc.)
Low-Energy Buildings (LEB) Database (average of	145 kWh/m2/yr
completed projects)	
Average UK Home	>400 kWh/m2/yr

Table 11.8 - Example empirical benchmarks from the literature

chapmanbdsp have used a benchmark which equates to c.175 kWh/m2/yr in terms of primary energy consumption (to get to a primary energy figure, metered electricity assumption is multiplied by a primary energy factor to account for generation and transmission losses in the electricity supply grid. For UK, the figure is approximately 2.92).

In comparison to the consumption figures for the 'Be Lean' case from the SAP Calculations, the assumed specific heat and electricity consumptions are about 16% higher, which seems reasonable.

From the SAP calculations, domestic hot water (DHW) heating accounts for c.57% of overall heat demand (whereas for the SBEM calculations for commercial (non-domestic) areas, DHW accounted for c.95%).

Annual demand profiles

The graphs in Figure 11.3 show example profiles for the residential element of the scheme for a peak winter and summer week:







Figure 11.3 - Example weekly load profiles for the Residential Buildings

Key points to note are that:

The demand profiles are estimations only, although their shapes are derived from monitoring of real • buildings in use (also, for example, the electricity profile is similar to those reported from research projects and as used in UK in electricity settlements);

- The demand profiles are normalised by the annual energy demand figures for heat (thermal) and • electricity (as explained earlier);
- It is assumed that demand for heating would occur primarily between 05:00 and 24:00, so there would be ٠ minimal demand in the early hours of the morning. Whereas for electricity, there will be a 'base load' at all times due to plant, appliances (even if in stand-by mode), lighting and so on (> 100kW);
- The profiles also assume that energy demand will peak in the early morning and later afternoon/evening • as the majority of people get ready to leave for work and return home respectively;
- The heating demand is dominated by the spikes in the DHW demand. During the summer week, there is no • demand for space heating and this 'variable' demand disappears;
- The profiles allow for an increase in energy demand during weekends (in comparison to weekdays) when • more residents are expected to be at home.

The estimated annual site demand profiles used in the CHP Analysis are shown in the figure below:



Figure 11.4 - Estimated Annual hourly Combined (Site) Demand Profiles for Electricity and Heat

The estimated thermal demand is also plotted as a load duration curve in Figure 11.5:



Figure 11.5 - Approximate Load Duration Curve showing site thermal/heat demand (this also shows the largest rectangle that can fit under the curve, which is a common technique for giving an initial feel for the thermal capacity of a CHP unit, but does not allow for factors such as turn-down, thermal storage and so on)

As the scheme progresses, it is expected that further work will be undertaken to evaluate demand profiles with inputs from dynamic thermal modelling of buildings and so on.

CHP analysis

CHP analysis is carried out on the basis of the estimated site hourly annual demand profiles using an in-house Excel-based CHP Analysis Tool.

This works on the following basis:

- Information on efficiencies at part-load for both the CHP units and back-up boilers is entered on the basis • of gross efficiencies (i.e. for the CHP, net electrical and thermal outputs (after accounting for parasitic loads) divided by the fuel input (based on the gross calorific value of, in this case, natural gas);
- A single CHP Unit strategy is assumed with associated thermal store and back-up boilers;
- The heat load of the building is met by the CHP, thermal store and (back-up) boilers in that order of priority;
- All heat generators/sources are available 24 hours per day. However, it is assumed that the CHP would be • unavailable for 3 days per annum for maintenance (as an initial assumption, so as not to over-exaggerate run hours or carbon savings), during which the demands would be met by the gas boilers (once the thermal store had been exhausted) and grid electricity import;
- The CHP charges the thermal store whenever it is able (the thermal store is only charged by the CHP and not by the boilers, which are for meeting peak loads);
- It is assumed that the CHP Unit (as per manufacturer's information) can modulate or turn-down to 50% of peak output (but no lower) - this is in fact automatically inferred based on the part-load data entered and would also run for a minimum one hour cycle when on (to avoid excessive cycling and also so as not to exaggerate run hours);
- The CHP unit is also regulated to avoid the need to dump excess heat or power
- The size of the CHP unit and the size of the thermal store can be varied automatically to assist in optimising sizing of the CHP and thermal store;

- Detailed quantitative and graphical outputs/results are generated together with reflected inputs for each ٠ scenario;
- Results can be analysed on an annual, weekly, and daily basis with shorter timescales giving more ٠ information about how the CHP plant is being operated and controlled and allowing different strategies to be tested

Illustrative Weekly Outputs from the chapmanbdsp CHP Analysis Tool are shown in Figure 11.6 and Figure 11.7.



Figure 11.6 - Thermal output of the single CHP Unit is regulated to avoid the need to 'dump' excess electricity





Each graphic shows 6 individual weekly graphs (running from Monday to Sunday) illustrating the following:

- Thermal/Heat Demand Profile for Site (with CHP Heat Generation overlaid);
- How the Thermal Demand is met (through heat from CHP, Thermal Store and then Boilers); ٠
- Electrical Demand Profiles (with CHP Electricity Generation overlaid); ٠
- How the Electrical Demand is met (through CHP generation and import from the grid); ٠
- State of the thermal store (% charged); ٠
- Ambient temperature profile. •

Optimal CHP size

In terms of identifying an optimal CHP size, analysis was run on the basis of engines with Heat to Power Ratios (HPR) of 1.6 (as per the Ener-G units and other 'Low NOx' units) and 1.1 (i.e. more bias to power generation) with gross efficiencies of c.80% at full-load and similar part-load performance.

Two graphics are presented - Figure 11.8 and Figure 11.9, with the thermal capacity of the CHP Unit (kWth) is varied in steps, with the thermal store auto-sized so that it can be charged on the basis of 4 hours of the CHP engine running at full output.

Each graphic contains 6 individual graphs:

- Annual carbon emissions (in tCO2e per annum); •
- Annual operational time (in hours per annum full load equivalent (FLE));
- Annual heat fraction (%);
- Annual power fraction (%);
- Annual breakdown of carbon emissions from CHP, Boilers, and Grid Electricity Import (%);
- Size of the Thermal Store (litres) assumed for the given CHP size.



Figure 11.8 - Impact of varying CHP Thermal Capacity for single CHP engine with HPR of 1.1 (gross efficiency 80% at full-load and 76% at 50% load)

Thermal store is auto-sized to provide 4 hours heat storage at maximum engine output for each CHP size



Figure 11.9 Impact of varying CHP Thermal Capacity for single CHP engine with HPR of 1.56 (gross efficiency 80% at full-load and 76% at 50% load)

Thermal store is auto-sized to provide 4 hours heat storage at maximum engine output for each CHP size

The analysis suggests that for a CHP unit with a HPR of 1.1, the optimum size would be c.300-400 kWth (270 -360 kWe) as above this there is little benefit in respect to reduced site-wide carbon emissions (as run hours would tend to reduce for larger units due to their more limited flexibility to turn-down during periods when loads are low). For instance, a c.400 kWth engine could run for around 6,500 hours per annum (full load equivalent) and meet c.65-70% of the annual heat demand and c.62-65% of the annual electricity demands.

For a CHP unit with a higher HPR of 1.5-1.6, the optimum size would be c.400kWth (250 kWe). This could run for around 6,700 hours per annum (full load equivalent) and provided up to 80% of the site annual heat demand and around 55% of the annual electricity demands.

As the graphs demonstrate, where a single CHP unit becomes 'too big', its run hours and potential for carbon savings eventually become limited by its inability to run when loads are too low.

Note that the thermal storage in this case is auto-sized to represent 4 hours of maximum heat output from the engine running at full-load (rather than, say, 1 hour of maximum heat output), based on findings from initial analysis and also taking into account that on a daily basis there should be 4-6 hour 'windows' in late evening and early morning where heat demand should be very low and there is an opportunity to recharge the thermal store to help meet peak daily heat loads.

With regarding to sizing of the CHP units and NOx emissions, research undertaken by chapmanbdsp has indicated that there are relatively few packaged CHP units (based on spark ignition engines) with integrated NOx abatement that can meet the GLA Emissions Standards for Band B developments such as Pentavia.

For example, as well as the Ener-G Units, Bosch also produce packaged low NOx CHP Units. However, the packaged low NOx units all seem to be limited to electrical outputs of c.230-240kWe or lower and have similarly (high) HPRs.

Gas turbines can also produce very low NOx emissions but tend to be much bigger in terms of capacity. There are a few smaller units such as the Capstone C200 (200kWe) MicroTurbine (which can also be linked together to form modular installations with a shared flue), but these have HPRs of 1.5-1.6 as well (i.e. similar to the Bosch and Ener-G low NOx engines). Fuel Cell CHP units can have HPRs lower than 1 but are still very rare in the UK and very expensive.

It therefore seems to make sense to look at CHP engines with lower HPR (increased bias towards electricity generation, which are more suited to the predicted demand profile of the Pentavia site given current

information) combined with separate 'external' pollution abatement (i.e. this is not part of the packaged CHP Unit) using SCR (Selective Catalytic Reduction) technology.

Hoval power block EG 460 unit

Based on the findings above, further analysis has been carried out based on a Hoval PowerBlock 460 Unit - 460 kWe/584kWth. Efficiencies stated in the manufacturer's datasheets are net and have been converted to gross. The boilers provisionally selected for the scheme are also manufactured by Hoval.

The unit has a gross efficiency of 80.2% at full load (HPR 1.27), 80.4% at 75% load (HPR 1.29) and 80.5% at 50% load (HPR 1.37). The performance of this unit (including part-load efficiencies) has been analysed using the CHP Tool. The results from this have been in turn been fed into the updated SAP Calculations in order to calculate the site wide emissions savings. The analysis indicates that an annual heat fraction of c.66% should be achievable.

The analysis (which also produces detailed numerical outputs) also indicated that the average annual efficiencies of the unit were very close to the efficiencies at 75% load and so these have also been used in the SAP Calculations (i.e. electrical efficiency of 35% and thermal efficiency of 45.3%).

It is noted that similar performance should be achievable from units from other manufacturers (which might differ slightly in terms of rated capacities), so the analysis is not critically dependent on one CHP unit from one supplier.

11.8 Unviable Low and Zero Carbon technologies

Solar thermal

Solar water heating is currently one of the most cost effective and affordable renewable technologies. Renewable solar energy is converted to heat via panels that absorb the high frequency heat radiation emitted from the sun. Evacuated tube technology maximises useful heat extraction even on a cold, cloudy day.

However solar thermal installation would compete against the proposed communal CHP installation for the base heating load hence reducing the impact of "CLEAN" measures and further increasing the system control and maintenance complexity.

Therefore, solar water heating is not appropriate for the Pentavia, Mill Hill development.

Wind turbines

Wind turbines come in vertical and horizontal axis forms and generate electrical energy using the wind. They have in the past received a poor reputation due to their carbon intensive construction and issues associated with noise and visual impact of wind farms. However, systems are becoming more and more common as well as more accepted even in some low-density urban areas or for exceptionally tall buildings. Small scale turbines suitable for domestic type environments are also now more available and affordable.

With consideration to the low average wind speeds in the densely built area of the site, wind turbines are not proposed.

Heat pumps

Air source heat pump systems can efficiently elevate low-grade environmental heat from air or ground to the level required for space heating and even domestic hot water system (albeit at low efficiency). Heat pumps work much more efficiently at a lower temperature (28-35 C) than a standard boiler system and are hence more suitable to "low-exergy" underfloor heating systems or larger low-temperature radiator and fan-coil systems that are also considered low-response systems as they give out heat at lower temperatures over longer periods of time.

This proposed scheme includes a fast response CHP system that is higher on the Energy Hierarchy. Also, CHP would compete with heat pumps for the building heating base load and increase communal system control complexity.

Ground Source and Air Source Heat Pumps are therefore not proposed for this development.

Alternative fuels (i.e. Biofuels and Biomass)

Alternative fuels such as solid biomass or liquid bio-fuels are used to achieve very high NET carbon emissions savings under building regulations, albeit often with local increase in pollutant emissions and raising some concerns about sustainable management of natural resources related to overexploitation of biomass fuel. The rationale for using biomass fuels is that carbon dioxide released when energy is generated using bio fuels is balanced by that absorbed during the fuels production though sustainable management practices (i.e. deforestation).

In order to ensure efficient operation, biomass boilers are typically sized to meet a constant rather than highly variable base load. Moreover, in an urban location such as that of Mill Hill, transport and delivery of biomass would be extremely problematic and would increase the carbon intensity of the fuel. Certain biomass sources are also claimed to threaten food production and as such considered unsustainable. From an air quality perspective Bio fuels commonly produce higher NOx emissions when burnt than conventional natural gas combustion and often do not meet requirements of the Clean Air Act and Local Air Quality Management Plans.

Some liquid bio fuels relate to organic matter similar to biomass and hence don't offer significant advantages over solid biomass. However certain liquid bio-fuels such as that derived from medical waste and certified by ISCC protocol have extremely low pollutant emission factors (i.e. CO2, NOx and particulates emission much lower than biomass) that qualifies them as a viable solution even in the areas with sensitive air quality. This is termed a carbon neutral process but only when the source of the fuel is renewable. Examples include sustainable rotation coppiced woodland used to produce solid biomass fuels and rape seed oil/ waste used to produce biodiesel.

Both biomass and bio fuels would require a significant fuel storage area or regular fuel deliveries with significant noise impact in this predominantly quiet residential and leisure area and the resulting increase in pollution (emissions and dust from deliveries).

Given the impact of local emissions from combustion of biomass fuel on air quality, biomass have not been proposed for this development whilst ISCC certified biofuel is eliminated due to noise and traffic issues related to frequent fuel deliveries in a residential area.

DOMESTIC EN	IERGY CONS	UMPTION	N AND CO2	ANALYSIS																						DEMAN
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a.g. plot number, dwelling type etc.)	Model total floor area (m²)	Number of units	represented by model (m²)	Calculated TER 2012 (kgCO2 / m2)	TER Worksheet TER 2012 (kgCO2 / m2)	Space Heating	Fuel type Space Heating	Domestic Hot Water	Fuel type Domestic Hot Water	Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Lighting	Auxiliary	Cooling	2012 CO2 emissions (kgCO2 p.a.)	Space Heating	Domestic Hot Water	Lighting	Auxiliary	Cooling	SAP10 CO2 emissions (kgCO2 p.a.)	Calculated TER SAP10 (kgCO2 / m2)	Target Fa Energy Effic (TFEE) (kW
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NON-DOME Building Use Mill Hill	Area per unit Number o (m ⁴) units 20321 1	Total area frequencies by model (m ²) 20321	D CO2 ANALY VALDAT Calculated BER 2012 (kgcO2 /m2) 22.8	SIS 10N CHECK BRUICL BER 2012 (kgc 2012 (kgc 2012 12.8	REC Space Heating (kWH/m* p.a.) 5.27	Fuel type Space Heating Natural Ges	Domestic Hot Water (KWH/m [*] p.a.) 3.27	USE (kWh/m² p.a Fuel type Dometic Hot Water Natural Gas) 'BE LEAM BER - SC Lighting (KWH/m* p.a.) 17.42	Auxiliary (kwh/m* p.a.) 3.24	PUT Cooling (KWH/m² p.a.) 2.51	Nated ENERgy CC	Grid Electricity 21	ULEL TYPE (KWI//m	(p.s.) 'BE LEAN BEF	R - SOURCE: BRU	KLINP or *SIM.CSV 2012 CO2 emissions (lgcC02 p.a.) 280,493	Natural Gas secondarias 8	Grid Electricity ann ann ann ann ann ann ann ann ann ann	REGULA	TED CO2 EMISSION	NS PER UNT	SAP10 CO2 emissions (bgCO2 p.a.) 136,423	BRUKL BER SAP10 (kgC02 / m2) 6.7	AP.	Space I (kWh 95,
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NON-DOME Building Use Mill Hill	Area per unit Number o (m²) Units	Total area frepresented by model (m ²) 20323	D CO2 ANALY VALDAT Calculated BER 2012 (QeC02 / m2) 12.8	SIS 10N CHECK BRUIX BER 2012 (IqUCC) 12.8	REG Space Heating (kWH/m* p.a.) 5.22	Fuel type Space Heating Natural Gas	Domestic Hot Water (KWH/m p.a.) 3.27	USE (kWh/m² p.a Puel type Domestic Hot Water Natural Gas) 'BE LEAM BER - SC Lighting (kWh/m* p.a.) 37.42	Auxiliary (kwh/m* p.a.) 3.24	Cooling (kWih/m* p.a.) 2.53	RATED ENERGY CC Natural Gas ####################################	Grid Electricity 21	ULEI TYPE (KWI//m	(p.s.) TOE LEAN BEF	R - SOURCE: BRU	KLINP of *SIM.CSV 2012 CO2 emissions (kgCO2 p.a.) 266,493	Natural Gas	Grid Electricity Annual Contractions 21	REGULA	TED CO2 EMISSION	NS PER UNIT	SAP10 CO2 emissions (kgC02 p.a.) 136,423	BFLUCL BER SAP10 (kgC02 / m2) 6.7	9 <i>6</i> ,	Space (kWH)
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NON-DOME Building Use Mill Hill	Area per unit Number o (m²) units	Total area Total area represented (m ²) 20321	D CO2 ANALY VALDAT Calculated BER 20.2 (kgc02 / m2) 12.8	SIS 10N CHECK BRUICL BRUICL BRUICL BRUICL BRUICL BRUICL 12.8	REG Space Heating (kWH/m* p.a.) 5.27	Fuel type Space Heating Natural Gas	Domestic Hot Water (KWH/m p.a.) 3.27	USE (kWh/m² p.a Fuel type Domestic Hot Water Natural Gas) 'BE LEAM BER - SC Lighting (kWh/m* p.a.) 37.42	Auxiliary (kwh/m* p.a.) 3.24	Cooling (kWł/m² p.a.) 2.53	AATED ENERGY CC Natural Gas ####################################	Grid Electricity 21	UEL TYPE (kwilym	(p.s.) THE LEAN BEF	R - SOURCE: BRU	KLINP or *SIM.CSV 2012 CO2 emissions (kgCO2 p.a.) 266,493	Natural Gas	Grid Electricity Internet and the second	REGULA			SAP10 CO2 emissions (kgC02 p.a.) 136,423	BRUKU BER SAP10 (kgC02 / m2) 6.7	ψ¢	Space (kw) 95,
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NON-DOME Building Use Mill Hill Sum SITE-WIDE E	Area per unit Number o (m*) Number o units 20322 J 20322 J 20322 J NERGY CONSUMPTION Total Area (r	IMPTION AN Total area Total area Tepresented (m ²) 20321 20,321 ON AND CO2 m ²)	D CO2 ANALY VALDAT Calculated BER 2022 (04CO2 / m2) 32.8 2.8 ANALYSIS Calculated BER 2022	SIS 100 GHEX BRU0. BRU0. BRU0. BRU0. BRU0. BU BU SU SU SU SU SU SU SU SU SU SU SU SU SU	FEG Space Heating (kWH/m* p.a.) 5.22 105,872	N/A	ISUMPTION BY END Domestic Hot Water (KWh/m p.a.) 3.27 66,450 REGULATEL Domestic Hoc	USE (kWh/m² p.a Fuel type Domesite Het Water Natural Gas Natural Gas) YE LEAN BER - SO Lighting (kWH/m* p.s.) 17.42 373,992 4910N	Auxiliary (kwh/m*p.a.) J.24 25,198	PUT Cooling (KWH/m ² p.a.) 2.51 53,006	RATED ENERGY CC Natural Gas S S	21	UEL TYPE (kwilym	(p.s.) TRE LEANY REF	R - SOURCE BRU	KLINP er *SIM.CSV 2012 CO2 emissions (kgCO2 p. a.) 260,493 260,493 260,493 260,493 260,493 260,493	Natural Gas	Grid Electricity International Control of Co	REGULA		NS PER UNT	SAP10 CO2 emissions (9gC02 p.a.) 136,423 136,423 136,423 136,423 REGULATED SAP10 CO2	BRUKL BER SAP10 (kgC02 / m2) 6.7 6.7 6.7 2.02 EMISSIONS	Afr	Space 19 (kwh 95,) 95,
NON-DOME Building Use Mill Hill Sum Sum SITE-WIDE E	Area per unit Number o Area per unit Number o 20321 J 20322 J NERGY CONSUMPTIO Total Area (r	Imprion AN Total area represented ymdi 20321 20321 ON AND CO2 m ³)	D CO2 ANALY VALDAT Calculated BER 2012 (IgcC07 /m2) 12.8 12.8 12.8 ANALYSIS Calculated BER 2012 (IgcC07 /m2)	SIS ION CHECK BRUIC, BR	Space Heating (with/m* p.a.) 5.22	N/A	SUMPTION BY END Domestic Hot Water (KWH/m ⁷ p.a.) 3.27 66,450 RecollAtter DemesticAtter DemesticAtter Water	USE (kWh/m² p.a Puel type Domesii Hot Water Natural Gas Natural Gas) 'BE LEAM BER - 50 Lighting (kWh/m' p.a.) 37.42 353,992 353,992 MPTION	Auxiliary (kwh/m* p.a.) 3.24 25,198 Auxiliary	PUT Cooling (kWt/ym*p.a.) 2.51 51,006	AATED ENERGY CO	21	UEL TYPE (kwh/m	(p.s.) TRE LEANT REF	R - SOURCE: BRU	KLINP of *SIM.CSV 2012 CO2 emissions (kgCO2 p.a.) 260,493 200,200 2000	Natural Gas	Grid Electricity conservations 21 21	REGULA		NS PER UNIT	SAP10 CO2 emissions (bgCO2 p.s.) 136,423 236,427 236,427 REGULATED SAP10 CO2 emissions	BFLUKL BER SAP10 (kgC02 / m2) 6.7 6.7 6.7 202 EMISSIONS Calculated BER SAP10	1 ¹ ty	Space is spa
NON-DOME Building Use Mill Hill Sum SITE-WIDE E Use	Area per unit Number o Area per unit Number o 20321 J 20322 J 20323 J NERGY CONSUMPTIO Total Area (n)	Imprion AN Total area represented ymol 20323	D CO2 ANALY VALDAT Calculated BER 2012 (lgcC02 / m2) 12.8 ANALYSIS Calculated BER 2012 (lgcC02 / m2)	SIS ION CHECK BRUICL BRUICL BRUICL BRUICL IQUECOLOL ILL BRUICL BR	Space Heating (kWH/m² p.a.)	N/A	SUMPTION BY END Domestic Hot Water (KWH/m p.a.) 3.27 66,450 66,450 REGULATEL Domestic Hot Water (KWH p.a.)	USE (kWh/m² p.a Puel type Domestic Het Water Natural Gas Natural Gas Natural Gas Natural Gas Natural Gas) 'BE LEAM BER - SC Lighting (kWh/m* p.a.) 37.42 353,992 353,992 MPTION Lighting (kWh p.a.)	Auxiliary (kwh/m* p.a.) 3.24 25,198 Auxiliary (kwh p.a.)	PUT Cooling (kwit/m* p.a.) 2.53 53,006 Cooling (kWh p.a.)	AATED ENERGY CC	21	UEL TYPE (kwilym	(p.s.) TRE LEAN REF	R - SOURCE: BRU	KLINP or *SIM.CSV 2012 CO2 emissions (kgCO2 p.a.) 260,493 260,493 260,483 REGULATED CO2 EMISSIONS 2012 CO2 emissions (kgCO2 p.a.)	Natural Gas B B B B B B B B B B B B B B B B B B B	Orid Electricity Insummerson 21 21	REGULA			SAP10 CO2 emissions (QcC02 p.1) 136,423 136,423 136,423 136,423 136,423 136,423 136,423 136,423	BRUKL BER SAP10 (kgC02 / m2) 6.7 6.7 6.7 5.2 EMISSIONS Calculated BER SAP10 (kgC02 / m2)	9 ¹ 6	Space (kw) 95, 95, 95, 95, 95, 95, 95,
NON-DOME Building Use Mill Hill Sum Sum SITE-WIDE E Use Sum	Area per unit Number o (m*) Number o 20321 I 20322 I 20323 I NERGY CONSUMPTIO Total Area (r 79347 Total Area (r	Imprion AN Total area f represented um/diameter by model 20221 20221 203221 203221	D CO2 ANALY VALDAT Calculated BER 2012 (04C07 / m2) 32.8 2.8 ANALYSIS Calculated BER 2012 (14CC7 / m2) 12.8	SIS IION OHEOK BER 2023 IION OHEOK BER 2023 IION OHEOK IION OHEOK IIONOOHEOK IION OHEOK IION OHEOK IIION OHEOK IION OHEOK	Space Heating (kWH/m* p.a.) 5.27 1.05,872	N/A	SUMPTION BY END Dom as is chot Water (kWh/m [*] p.a.) 3.27 3.27 66,450 REGULATER Dom as is chot Water (KWh, p.a.) 2,065,491	USE (kWh/m ² p.a Fuel type Domestic Het Water Natural Gos Natural) 'BE LEAM BER - SO Lighting (KWH/m' p.a.) 17.42 353,992 MPTION Lighting (KWH p.a.) 655,814	URCE: BRUKL OUT Auxiliary (kWh/m* p.a.) 3.24 25,198 25,198 Auxiliary (kWh p.a.) 175,399	PUT Cooling (kWH/m ² p.a.) 2.53 5.5,006 5.5,006 Cooling (kWH p.a.) 5.1,006	AATED ENERGY CC Natural Gas S S S S S S S	21	UEL TYPE (KWI//m	(p.s.) TRE LEAN REF	R - SOURCE BRU	KLINP er *SIM.CSV 2012 CO2 emissions (lqCO2 p. a.) 260,499 260,499 260,499 260,499 260,499 260,499 260,499 260,499 260,499 260,499 261,200 261	Natural Gas	Grid Electricity 21 21 21	REGULA			SAP10 CO2 emissions (\$qCO2 p.1.) 136,423 136,423 136,423 136,423 136,423 136,423 REGULATED SAP10 CO2 emissions (\$qCO2 p.1.) 275,604	BRUKL BER SAP10 (kgC02 / m2) 6.7 6.7 6.7 C02 EMISSIONS Calculated BER SAP10 (kgC02 / m2) 1.2.3	46	Space (kw) 95, 95, 95, 95, 95, 95, 95, 95, 96, 97, 97, 97, 98, 99, 99, 99, 90, 90, 90, 90, 90, 90, 90
NON-DOME Building Use Mill Hill Sum SITE-WIDE E Use	Area per unit Number o Area per unit Number o 20121 J 20122 J 20,321 L NERGY CONSUMPTION Total Area (n 79,447 79,447	MPTION AN Total area frepresented by model (m ²) 20321 20321 20321 0N AND CO2 m ³)	D CO2 ANALY VALDAT Calculated BER 2022 (QCC2/ m2) 12.8 12.8 ANALYSIS Calculated BER 2012 (IgC02 / m2) 15.6	SIS ION CHECK BRUICL BRUICL BRUICL BRUICL SUR 2021 22.8	Space Heating (kWH/m* p.s.) 5.22 105,872 Space Heating (kWh p.s.) 1,646,880	N/A	SUMPTION BY END Domestic Hot Water (KWh/m p.a.) 3.27 666,450 REGULATEC Domestic Hot Water (KWh p.a.) 2,065,491	USE (kWh/m² p.a Fuel type Domesity Water Natural Gas Natural Gas Denergy consultation Denergy consultation) YELLEAM BER - SO Lighting (KWH/m* p.s.) 37.42 37.42 45.33,992 45.314 (Lighting (Lighting (Lighting) (Est,314	LURCE: BRUKL OUT Auxiliary (KWh/m* p.a.) J.24 25,198 Auxiliary (KWh p.a.) 175,359	PUT Cooling (kwith/m* p.a.) 2.51 51,006 Cooling (kWh p.a.) 51,006	AATED ENERgy CC Natural Gas S S S S S	21	UEL TYPE (KWI//m	(p.s.) TRE LEANY REF	R - SOURCE: BRU	KLINP er *SIM.CSV 2012 CO2 emisions (kgCO2 p.a.) 260,493 260,4	Natural Gas	Grid Electricity measurements 21 21	REGULA		NS PER UNIT	SAP10 CO2 emissions (bgCO2 p. 3.) 136,423 136,423 136,423 136,423 8,425 REGULATED SAP10 CO2 emissions (bgCO2 p. 3.) 975,604	BRUKL BER SAP10 (kgC02 / m2) 6.7 6.7 6.7 202 EMISSIONS Calculated BER SAP10 (kgC02 / m2) 12.3	4k	Space (kwi 95 95 95 95 95 95 95 95

chapmanbdsp The applicant sho	uld complete all	the light blue c	ells including inf	formation on the "	oe lean' energy cons	umption figures, th	ne 'be lean' DER, the D	FEE and the regulat	ed energy demand of	f the 'be lean' sc	enario.				SAP 2012 CO2	PERFORMANCE					5	SAP10 CO2 PERFORM	MANCE				
DOMESTIC E	NERGY CON	ISUMPTIO	N AND CO2	ANALYSIS				-																			DC
			Total area	VALIDAT	ION CHECK		REGULATED ENER	GY CONSUMPTION	PER UNIT (kWh p.a.)	- 'BE LEAN' SAP	DER WORKSHEET			REGUL	ATED CO2 EMISSIC	INS PER UNIT (kgCC	D2 p.a.)				REGUL	LATED CO2 EMISSIO	NS PER UNIT			Fabric Energy Efficiency (FEE)	RE
Unit identifier (e.g. plot number dwelling type etc	Model total r, floor area .) (m²)	Number of units	represented by model (m²)	Calculated DER 2012 (kgCO2 / m2)	DER Worksheet DER 2012 (kgCO2 / m2)	Space Heating	Fuel type Space Heating	Dom estic Hot Water	Fuel type Domestic Hot Water	Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Water	Lighting	Auxiliary	Cooling	2012 CO2 emissions (kgCO2 p.a.)	Space Heating CO2 emissions (kgCO2 p.a.)	Domestic Hot Water CO2 emissions (kgCO2 p.a.)	Lighting CO2 emissions (kgCO2 p.a.)	Auxiliary CO2 emissions (kgCO2 p.a.)	Cooling CO2 emissions (kgCO2 p.a.)	SAP10 CO2 emissions (kgCO2 p.a.)	Calculated DER SAP10 (kgCO2 / m2)	Dwelling Fabric Energy Efficiency (DFEE) (kWh/m²)	Space Heating (kWh p.a.)
					DER Sheet (Row 384)	DER Sheet [(Row 307a) + (Row 367a x 0.01)]	Select fuel type	DER Sheet [(Row 310a) + (Row 367a x 0.01)]	Select fuel type	DER Sheet Row 332	DER Sheet (Row 313 + 331)	DER Sheet Row 315															
ы	59126.11	1	59126.11	16.5	16.5	1540507-419	Natural Gas	1999042-983	Noturol Gos	26132226	150161.0982	0	332,750	431,793	135,626	77,934	0	978,102	223,507	419,799	60,888	34,988	0	839,181	14.2	46.15309742	1,313,099

				Mill H
DON	IESTIC ENERG	Y DEMAND D	ATA	
REG	ULATED ENERGY DE	MAND PER UNIT F	ER ANNUM (kWh	o.a.)
Heating 'h p.a.)	Domestic Hot Water (kWh p.a.)	Lighting (kWh p.a.)	Auxiliary (kWh p.a.)	Cooling (kWh p.a.)
13.099	1.703.944	261.322	150.161	0
13,099	1,703,944	261,322	150,161	0
REG	ULATED ENERGY DE	MAND PER UNIT F	ER ANNUM (kWh	o.a.)
Heating	Domestic Hot Water	Lighting (kWh p.a.)	Auxiliary (kWb.p.a.)	Cooling (kWh p.a.)
5,895	(KWh p.a.) 57,658	352,424	25,086	253,697
5,895	57,658	352,424	25,086	253,697
REG	ULATED ENERGY DE	MAND PER UNIT F	ER ANNUM (kWh	p.a.)
Heating	Domestic Hot Water	Lighting	Auxiliary	Cooling
08,994	(kWh p.a.) 1,761,603	613,746	175,248	253,697

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The appli	cant should com	olete all the ligh	ht blue cells in	including info	ormation on the 'be	e clean' energy cor	nsumption figures a	nd the 'be clean' DER											S	5AP 2012 CO2 PE	RFORMANCE							SAP	P10 CO2 PERFORMA	INCE		_	
DOME	STIC ENERG	CONSUM	IPTION AN	ND CO2 A	NALYSIS																											_	
Unit ide	ntifier band	1 8 - 8 - 1	Tot	otal area	VALIDATIO	IN CHECK			REGUL	ATED ENERGY CONSI	IMPTION PER UNIT (k)	Wh p.a.) - 'BE CLEAN	SAP DER WORKSHEET	т					REGULATED	CO2 EMISSIONS	S PER UNIT (kgCO2 p	L.)						REGULATED CO	2 EMISSIONS PER U	INIT (kgCO2 p.a.)			
(e.g. plot dwellin	number, floo g type	area uni	iberof reprints by	presented by model	Calculated DER 2012	DER Worksheet DER 2012	Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Water	Fuel type Domestic Hot Water	Space and Domestic Hot	Fuel type CHP	Total Electricity generated by CHP (-	Lighting	Auxiliary	Cooling	Space Heating	Domestic Hot Spa Water and	ace Heating I DHW from ge	Electricity enerated by	Lighting	Auxiliary Co	oling 203 emi	2 CO2 S ssions	pace Heating D	omestic Hot Water	Space Heating and DHW from	Electricity generated by	Lighting	Auxiliary	Cooling	SAP10 CO2 emissions	Calculated DER SAP10
etc	L) '	.,	((m²)	(kgCO2 / m2)	(kgCO2 / m2)			(Heat Source 1)		Water from CHP	if applicable) if applicable						CHP applicable if	CHP			(kgO	2 p.a.)			CHP	CHP				(kgCO2 p.a.)	(kgCO2 / m2)
						DER Sheet	DER Sheet	Select fuel type	DER Sheet	Select fuel type	DER Sheet	Select fuel type	DER Sheet	DER Sheet	DER Sheet	DER Sheet			аррисане п	apprease							Tapprease	ii applicable					
						(100 304)	(Row 367b x		(Row 367b x 0.01)]		(Row 367a + 310a) + (Row 367a + 0.01))		× (Row 361 + 362)]	NUW 332	(100 313 - 331)	100 313																	
All	591	6.11 1	1 592	9126.11	10.4	10.4	489839.5064	Natural Gas	635640.7223	Natural Gas	4615477.354	Natural Gas	-1615417.074	261322.26	150161.0982	0	105,805	137,298	996,943	-838,401	135,626	77,934	0 61	i,205	102,866	133,485	969,250	-376,392	60,888	34,988	0	925,085	15.6
1							1																										
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									500 A.M.																								
Sum	55	126 1	1 5	59,126	10.4		489,840	N/A	635,641	N/A	4,615,477	N/A	-95,513,327,600	261,322	150,161	0	105,805	137,298	996,943	-838,401	135,626	77,934	0 61	;,205	102,855	133,485	969,250	-376,392	60,888	34,988	0	925,085	15.6
Sum NON-D	55 OMESTIC E	126 1 NERGY CON	1 5	59,126	10.4 CO2 ANALYSIS	- 5	489,840	N/A	635,641	N/A	4,615,477	N/A	-95,513,327,600	261,322	150,161	0	105,805	137,298	996,943	-838,401	135,626	77,934	0 61	;,205	102,855	133,485	969,250	-376,392	60,888	34,988	Đ	925,085	15.6
Sum NON-D	55 OMESTIC E	126 1 NERGY CON	1 50 NSUMPTIO Tot	59,126 ION AND (otal area	10.4 CO2 ANALYSIS VALIDATIO Coloniated	S IN CHECK BRUKL	489,840	N/A Fueltype	635,641 REGULATED E Domestic Hot	N/A NERGY CONSUMPTIO	4,615,477	N/A n² p.a.) 'BE CLEAN'	-95,513,327,600 BER - SOURCE: BRUKL O Total Electricity	261,322 DUTPUT Liebline	150,161 Autiliary	0 Cooling	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM	996,943 MPTION BY FUELT	-838,401 FYPE (kWh/m² p.:	135,625 a.) "BE CLEAN" BER	77,934 SOURCE: BRUKLINP	0 61 r*5IMLCSV FILE	;,205	102,855 Natural Gas G	133,485 id Electricity	969,250 Ri Besooke DH	-376,392 EGULATED CO2 EM	60,888 MISSIONS PER UNIT	34,988	D	925,085	15.6 HRUKL
Sum NON-D Buildin	SS POMESTIC E	126 1 NERGY CON er unit Numb	1 5: NSUMPTIC Iber of repr nits bu	59,126 ION AND (otal area presented yo model	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (keC02 / m2)	5 N CHECK BRUKL BER 2012 (ksC02 / m2)	489,840 Space Heating	N/A Fuel type Space Heating	635,641 REGULATED E Domestic Hot Water	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water	4,615,477 N BY END USE (kWh/	N/A n² p.a.) 'BE CLEAN' I	-95,513,327,600 BER - SOURCE: BRUKLO Total Electricity generated by CHP (-	261,322 DUTPUT Lighting	150,161 Auxiliary	0 Cooling	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUN Grid Electricity B(996,943 APTION BY FUELT Ispoke DH I Factor ge	-838,401 FYPE (kWh/m² p. Electricity enerated by CHP	135,625 a.) 'BE CLEAN' BER .	77,934 SOURCE: BRUKLINP	0 61 r*SIMLCSV FILE 201 emi (kac)	2 CO2 ssions S2 p.a.)	102,885 Natural Gas Gr	133,485 id Electricity	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CHP	60,888 MISSIONS PER UNIT	34,988	0	925,085 SAP 10 CO2 emissions (secO2 p.a.)	15.6 BRUKL BER SAP10 (%rC02 / m2)
Sum NON-D Buildin	OMESTIC E	126 1 NERGY CON er unit Numb 1 ¹) un	1 5 VSUMPTIO Tot ober of repr nits by (59,126 ON AND (otal area presented py model (m ²)	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgC02 / m2)	S IN CHECK BRUKL BER 2012 (kgC02 / m2)	489,840 Space Heating	N/A Fuel type Space Heating	635,641 REGULATED E Domestic Hot Water	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water	4,615,477 IN BY END USE (IWH/	N/A n ^a p.a.) 'BE CLEAN' I	-95,513,327,600 BER - SOURCE: BRUKL C Total Electricity generated by CHP ()	261,322 DUTPUT Lighting	150,161 Ausiliary	0 Cooling	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electricity Br	996,943 APTION BY FUELT Espoke DH I Factor ge	-838,401 FYPE (kWh/m² p.i Electricity enerated by CHP (-) ison(inthe)	135,625 a.) 'BE CLEAN' BER -	77,934 SOURCE: BRUKLINP (0 61 **SIMLCSV FILE 201 em (kgCl	2 CO2 ssions 12 p.a.)	102,866 Natural Gas Gr	133,485 id Electricity	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CHP (-) if anolicable	60,888 AISSIONS PER UNIT	34,988	o	925,085 SAP 10 CO2 emissions (kgCO2 p.a.)	15.6 BRUKL BER SAP10 (kgC02 / m2)
Sum NON-D Buildin	55 OMESTICE Ig Use Area (126 1 NERGY CON er unit Numk s ¹) un	1 5: NSUMPTIO Tot aber of repr its by (59,126 ION AND 0 otal area presented yy model (m ³)	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgC02 / m2)	S IN CHECK BER 2012 (kgC02 / m2)	489,840 Space Heating	N/A Fuel type Space Heating	635,641 REGULATED E Domestic Hot Water	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water	4,615,477 N BY END USE (kWh/	N/A n² p.a.) 'BE CLEAN' I	-95,513,327,600 BER - SOURCE: BRUKL C Total Electricity generated by CHP () Happicable 2 49	261,322 DUTPUT Lighting	150,161 Auxiliary	0 Cooling	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electricity Br	996,943 APTION BY FUEL T espoke DH I Factor ge (1)	-838,401 TYPE (kWh/m ² p.i. Electricity chP (-) opplicable ининининининининининининининининининин	135,626 a.) "BE CLEAN" BER	77,934 SOURCE: BRUKLINP (0 61 r*SIMLCSV FILE 200 emi (kgC) 23	2 CO2 ssions 12 p.a.)	102,856 Natural Gas Gr	133,485 id Electricity яяниняяния я	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity CHP (-) if applicable инивиния	60,888 MISSIONS PER UNIT	34,988	D	925,085 SAP 10 CO2 emissions (kgCO2 p.a.)	15.6 BRUKL BER SAP10 (kgC02 / m2)
Sum NON-D Buildin Mill Hill	55 POMESTICE Ing Use Area (126 1 NERGY CON er unit Numit	1 5: NSUMPTIO aber of repr aber of repr 1 2	59,126 ON AND 0 otal area presented y model (m ³) 20321	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgC02 / m2) 11.5	5 IN CHECK BER 2012 (kgC02 / m2) 11.5	489,840 Space Heating 20.54	N/A Fuel type Space Heating Notural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water Notural Gas	4,615,477 N BY END USE (kWh/	N/A nº p.a.) 'BE CLEAN' I	-95,513,327,600 BER - SOURCE: BRUKL C Total Electricity generated by CHP (} <u>if applicable</u> -3.38	261,322 DUTPUT Lighting 17.42	150,161 Ausiliary	0 Cooling 2.52	105,805 REGULA Natural Gas 17	137,298 TED ENERGY CONSUM Grid Electricity Bo HARRANNER BRANK	996,943 APTION BY FUELT Espoke DH I Factor ge	-838,401 IVPE (kWh/m ¹ p. Electricity ch P (-) ch P (-)	135,625 a.) 'BE CLEAN' BER	77,934 SOURCE: BRUKLINP	0 61 **SIMLCSV FILE 200 emi (kgC 23	;205 2 CO2 ssions 22 p.a.) ##	102,856 Natural Gas Gr инжиниканик ини 17	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor инжиниканина (-376,392 EGULATED CO2 EM Electricity generated by CHP (-) if applicable инининининини -6	60,888 MISSIONS PER UNIT	34,988	0	925,085 SAP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.6 BRUKL BER 5AP10 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE Ig Use Area (126 1 NERGY CON er unit Numb ¹⁴) un 322 1	1 51 VSUMPTIO Tota beer of repr hits by (1 2 2	59,126 ON AND O otal area presented y model (m ³) 20321	10.4 CCO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgcC02 / m2) 11.5	5 NN CHECK BRUKL BER 2012 (kgC02 / m2) 21.5	489,840 Space Heating 10.54	N/A Fuel type Space Heating Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water Notural Gas	4,615,477 N BY END USE (kWin/	N/A n² p.a.) 'BE CLEAN' i	-95,513,327,600 RER - SOURCE: BRUKL Total Electricity generated by GIP (1 if applicable -5.98	261,322 DUTPUT Lighting 17.42	150,161 Ausiliary 1.24	0 Cooling 2.51	105,805 REGULA Natural Gas 17	137,298 TED ENERGY CONSUM Grid Electricity Bo HARRANNER REAL 21	996,343 MPTION BY FUELT Espoke DH I Factor gc () HENDERGENERAL BIRK	-838,401 FYPE (kWh/m* p. Electricity ch-P (-) ch-P (-) separtcobe meananemen s.5.99	135,625 a.) 'BE CLEAN' BER	77,934 SOURCE: BRUKLINP	0 61 **SIM.CSV FILE 201 em (kgC 23	2 CO2 ssions 12 p.a.) ##	102,855 Natural Gas Gu	133,485 id Electricity	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CHP (-) if applicable Annexennessmen -6	60,888 MISSIONS PER UNIT	34,988	0	925,085 SAP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.6 BRUKL BER SAP10 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE Isg Use Area (125 1 NERGY CON er unit Numb '') un 122 3	1 5: VSUMPTIO Toto aber of repr by (2 2	59,126 ON AND (otal area presented ry model (m ³)	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgC02 / m2) 23.5	S IN CHECK BRUKL BRUKL BR2 7012 (kgC02 / m2) 31.5	489,640 5pace Heating 10.54	N/A Fuel type Space Heating Notural Gos	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water Restural Gas	4,615,477	N/A	-95,513,327,600 BER - SOURCE: BRUKL C Total Electricity generated by CHP () if applicable -5.38	261,322 DUTPUT Lighting 17.42	150,161 Ausiliary 1.24	0 Cooling 2.51	105,805 REGULA Natural Gas 1000000000000000000000000000000000000	137,296 TED ENERGY CONSUM Grid Electricity Br 21	995,943 MPTION BY FUELT SSpoke DH Factor ge	-838,401 IYPE (kWh/m* p. Electricity chr chr chr chr chr chr chr chr chr chr	135,625 a.) 'BE CLEAN' BER	77,934 SOURCE: BRUKLINP	0 62 **SIMA.CSV FILE 201 (kgC 23	2 CO2 ssions s2 p.a.) HH 1,207	102,866 Natural Gas G	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity (-) it applicable -5	60,888 MISSIONS PER UNIT	34,988	0	925,085 5AP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.5 BRUKL BBI SAPJO (kgCO2 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 POMESTICE Ig Use Area (20	125 1 NERGY CON er unit Numb '') un 122 3	1 5 VSUMPTIO Tot ber of repr nits by (2 2	59,326 ON AND (otal area presented ry model (m ³) 20321	10.4 CO2 ANALYSIS VALIDATIO Calculated BER 2012 (kgC02 / m2) 21.5	5 NN CHECK BRUNKL BRR 2012 (kgC02 / m2) 31.5	489,840 Space Heating 20.54	N/A Fuel type Space Heating Network Gos	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIO Fuel type Domestic Hot Wates Actural Gas	4,615,477	N/A	-95,513,327,600 BER - SOURCE: BRUKL Total Electricity generated by OHP () if applicable - 5.98	261,322 DUTPUT Lighting 17.42	150,161 Auxillary 2.24	Cooling Cooling 2.57	105,805 RECULA Natural Gas 1 37	137,296 TED ENERGY CONSUM Grid Electricity Br HAMMARAMMENT AND A	995,943 MPTION BY FULL 1 Isspoke DH I Factor gg	-838,401 TYPE (kWh/m ¹ p. Externicity CHP CHP CHP CHP CHP CHP CHP CHP	135,525 a.) 'BE CLEAN' BER -	77,934 Source: Brukling-	0 62 **SIMA.CSV FILE 201 em (kgC 23	2 CO2 ssions 12 p.a.) 1,207	102,866 Natural Gas Gr 1999	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CH H a spin chole energy and the spin chole -6	60,888 AISSIONS PER UNIT	34,988	0	925,085 5AP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.5 BRUKL BUS 5APJ0 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 POMESTICE Ig Use Area (20	126 2 NERGY CON er unit Numk ¹⁹ un	1 5 VSUMPTIO Tot of repr nits by (2 2	59,126 ON AND 0 otal area presented (m ³) 20321	10.4 CO2 ANALYSIS VALUATIO Calculated BER 2012 (kgCO2 / m2) 21.5	5 NN ONECK BRUKKL BRI 2012 (kgC02 / m2) 11.5	489,640	N/A Fuel type Space Heating Asturni Gos	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domestic Hot Water Asstural Gas	4,615,477	N/A	-95,513,327,600 BER - SOURCE: BRUKL O Total Electricity generated by OHP (} Happficable - 5.98	261,322 DUTPUT Lighting 17.42	150,161 Auxillary 2.24	0 Cooling 2.51	105,805 RECULA Natural Gas 1 27	137,296 TED ENERGY CONSUM Grid Electristy Br HARRESENANCE BRAN 21	995,543 MPTION BY FULL 1 Inspoke DH I Factor ge //	-838,401 TYPE (kWh/m* p. Electricide) CHP () opericable () opericable () 5.5.98	135,525 a.) TE CLEAN BER -	77,934 Source: Brukling A	0 61 **SRA.CSV FILE 200 em (kgC) 23	2 CO2 sisions 22 p.a.) ##	102,866 Natural Gas Gr	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CHP H applicable	60,888 AKSSIONS PER UNIT	34,988	0	925,085 5AP 10 CO2 emissions (kgCO2 р.в.) 343,870	15.5 BRUKL BUS 5APD (kgC02 / m2) 7.1
Sum NON-D Buildin	55 OMESTICE Ig Use Area (125 2 NERGY CON er unit Numi ¹⁹ un	1 54 NSUMPTIC Tot sher of repr inits by (2 2	59,126 ON AND 0 otal area presented (m ³) 20321	10.4 VALUDATIO Calculated BER 2012 (kgCC2 / m2) 21.5	5 NN CHECK BRUKK BER 2012 (kgC02 / m2) 11.5	489,640 5pace Heating 10.54	N/A Fuel type Space Heating Actural Gos	633,641 REGULATID B Domestic Hot Water 6.32	N/A NetRGY CONSUMPTIC Tust type Domestic Hot Water Natural Gas	4,615,477	N/A	-85,513,327,600 BER - SOURCE: BRUKL O Total Electricity generated by OHP (} if applicable - 3.38	261,322 DUTPUT Lighting 27.42	250,163 Auxiliary 2.24	0 Cooling 2.51	105,805 REGULA Natural Gas 17	137,298 TED ENERGY CONSUN Grid Electricity Br annessantenessan anne 21	996,843 AFTION BY FUEL T sspoke DH I Factor ge (-838,401 TYPE (xWh/m* p. Electricity ecrotection control of the electricity ecrotection electrol elect	135,625	77,934 SOURCE: BRUKE,JAP	0 62 **SRA.CSV FILE 200 emi (kęC 23	2 CO2 sisions 22 p.a.) ##	102,866 Natural Gas Gi assancesances and 17	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity generated by CHP CHP Happicable -9	60,888 Alssons fer unit	34,688	0	925,085 54P 10 CO2 emissioni (kgCO2 p.a.) 143,870	15.5 BRUKL BRUKL (%gC02/m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE 19 Use Area (20	126 1 NERGY CON er unit Numb '') un 122 1	1 50 NSUMPTIC Tot aber of repr inits by (2 2	59,126 ON AND 0 otal area presented y model (m ³)	10.4 CCO2 ANALYSIS VALUATIC Calculated BER 2012 (IqgC02 / m2) 21.5	S IN OTECK BRURK BRU 7012 (kgC02 / m2) 21.5	489,640 Space Heating 10.54	N/A Fuel type Space Healing Noturol Gos	635,641 RECULATED E Domestic Net Water 6.32	N/A MERCY CONSUMPTIC Test type Domestic Hot Water Natural Gas	4,615,477	N/A	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by CAP () if applicable - 3.98	261,322 DUTPUT Lighting	159,163 Auxiliary 2.24	0 Cooling 2.51	105,805 REGULA Natural Gas 1	137,298 TED ENERGY CONSUR Grid Electricity Bo	995,943 AFTION BYFUELT Sapoke DH I Factor ge (-838,401 TYPE (KWh/m* p. Electricity CHP CHP CHP CHP CHP CHP CHP CHP CHP CHP	155,625 a) THE CLEANY BER	77,934 SOURCE: BRUKLINF	0 62 **SIMACSV FILE 200 (%gC 23	2 CO2 sisions 12 p.a.) 4// 4//	102,886 Natural Gas Go assarances and 17	133,485 id Electricity 21	969,250 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity OrP (-) It applicable -0	50,888 MISSIONS FER UNIT	34,988	8	925,085 5AP 10 CO2 emissions (agCO2 p.a.) 143,670	15.6 BRURKL BRUSKL (kgC02/m2) 7.1
Sum NON-D Buildin	SS OMESTICE Isg Use Area (125 1 NERGY CON er unit Numb '') un 527 3	1 Si VSUMPTIO sher of repr nits by (2 2	59,126 ON AND 0 otal area presented y model (m ³)	10.4 CO2 ANALYSIS VALIDATIO EBER 2012 (LigCO2 / m2) 31.5	S NI CHLCK BRURI BRE 2012 (kgC02/m2) 21.5	489,840 5pace Heating 10.54	N/A Fuel type Space Heating Noturol Gos	635,641 RECULATED E Domestic Hot Water 6.32	N/A NERCY CONSUMPTION Fuel type Domesic Hot Water Natural Gas	4,615,477 N BY END USE (NWH/	N/A ™ p.a.) be cleany yb ^p	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by CHP () if applicable -3.39	261,322 DUTPUT Lighting	159,163 Auxiliary 2.24	0 Cooling 2.53	105,805 REGULA Natural Gas I Internet Annual Cas I 17	137,298 TED ENERGY CONSUR Grid Electricity Bo ANNARAMENTAL	995,943 AFTION BY FUEL T Spoke DH I Factor ge (####################################	-838,401 ITFFE (kWH/m* p./ Electricity CHP CHP ChP ChD ChD ChD ChD ChD ChD ChD ChD ChD ChD	135,625 a.) 'WE CLEAN' BER	77,934 SCURCE: BRUKLINP	0 61 **SIMACSY ITLE 000 (%gC 23	2 CO2 ssions 12 p.a.) ##	102,856 Natural Gas Gr assances and 17	133,485 id Electricity managements a	969,250 Response DH Factor	-376,392 EGULATED CO2 EM Electricity CHP (-) if applicable -5	60,888 MISSIONS PER UNIT	34,988	0	825,085 SAP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.5 BRUKL BEL SAPJD (kgCO2 / m2) 7.1
Sum NON-D Buildin Mail Hail	55 OMESTICE Ng Use Area (20	125 3 NERGY CON er unit Numit ¹⁴ 122 3	1 Si VSUMPTIO	59,126 ON AND 0 otal area presented (m ⁹) 20322	20.4 CO2 ANALYSIS VALIDATIO Calculated BER 2022 (kgCO2 / m2) 21.5	5 NI CHECK BRUKL BRUKL BRUKL BRUKL BRUKL BRUKL (kgC02 / m2) 31.5	489,840 5pace Heating 10.54	N/A Faat hype Space Heating Notural Gas	635,641 REGULATED E Domentic Hot Water 6.32	N/A NERGY CONSUMPTIC Fast type Domesic Hot Water Natural Gas	4,615,477 N BY END USE (MWh/ N BY END USE (MWh/)	N/A nº p.a.) be cleany N/F	-95,513,327,600 BER - SOURCE: BRUKLO Total Electricity generated by CHP () if applicable -3.98	261,322 DUTPUT LighNing 17.42	159,161 Ausiliary 1.24	0 Cooling 2.51	105,805 REGULA Natural Gas (1 17	137,296 TED ENERGY CONSUR Grid Electricity Bo	995,943 APTION BY FULL T sepoke DH I Factor ge	-838,401 TYPE (kWh/m [*] p.t Electricity CHP (-) gepticable -3.58	135,625	77,934 SOURCE: BRUKLINF	0 62 **SIM.CSV TILE (%gC 23	2 CO2 ssions 12 p.a.) an 3,207	102,856 Natural Gas Gi essentenenten essi 17	133,485 id Electricity 21	969,250 Response DH Factor	-376,392 EGULATED CO2 EM Electricity enerated by (.) if applicable answere -5	50,858 RESIDNS PER UNIT	34,985	0	825,085 SAP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.6 BRUKL BBL 5AP.10 (kgCO2 / m2) 7.1
Sum NON-D Buildin Nill Hill	55 OMESTICE Ng Use Area (126 1 NERGY CON er unit Numi vi) un 122 3	1 Si NSUMPTIC total tota	59,126 ION AND IoN AND IoN AND IoN ION ION 20327	10.4 CO2 ANALYSIS VALDATIO Calculated BER 2012 (kgCO2 / m2) 13.5	5 IN OFFECK BRUKK, BRUKK, BRUZZ (MSC02 / m2) 21.5	489,840	N/A Puel type Space Healing Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domesic Hot Water Netural Gas	4,615,477 N BY END USE (NWI/) N BY END USE (NWI/)	N/A ™p.a.) be clean i	-95,513,327,600 RER - SOURCE: BRUKL Total Electricity generated UCIP (1) if applicable -5.98	261,322 DUTPUT Lighting 17.42	159,161 Auxiliary 3.24	0 Caoling 2.57	105,805 RECULA Natural Gos (1 17	137,296 TED ENERGY CONSUM Grid Electricity Br Branssenances and States 21	995,943 #PTION BY FUEL T spoke DH I Factor ge d	-839,401 TYPE (kWi/m* p. Electricity CHP () oppficate -5.58	155,625 a.) TE CLEAN EER	77,934 50UKCI: BRUKLINP	0 61 **SMA.CSV FILE (%gC 23	2 CO2 2 CO2 2 (D.2 2 (D.3) 300 300 300 300 300 300 300 300 300 3	102,866 Natural Gas Gr 27	133,485 Id Electricity	969,250 Ri Bespole DH Factor	-376,392 RGULATED CO2 EM Electricity generated by (-) il applicable -5	60,888	34,988	0	925,065 5AP 10 CO2 emissions (kgCO2 p.a.) 143,870	15.6 BRUKKL BRS 5AP10 (kgC02 / m2)
Sum NON-D Baildin Mill Hill	55 OMESTICE Ig Use Area (22	126 1 NERGY CON er unit Numi भ) un	1 5: VSUMPTIC wher of repr nits by (2 2	59,126 JON AND Color and a set of the set of	10.4 VALIDATIO Calculated BER 2012 (kgCO2 / m2)	5 IN CHECK BRUKL BRUKL BRUZL (kgC02/m2) 21.5	489,840	N/A Fuel type Space Healing Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIO Fuel type Domesiic Host Water Network Gos	4,615,477	N/A n² p.a.) be clean i hy p.a.) be clean i	-95,513,327,600 RER - SOURCE: BRUKL C Total Electricity generated by CHP () if applicable -5.98	261,322 DUTPUT Lighting 17.42	159,161 Ausliary 2.24	0 Cooling 2.57	105,805 RECULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electricity Br Hammannan and State 21	4995,943 4971ON BY FUEL 1 5spoke DH I Factor gc	-838,401 TYPE (kWh/m* p. Electricity CHP (-) <u>oppficate</u> -5.98	135,625 a.) TE CLEAN EER	77,934 SOURCE: BRUKLINP	0 61 **SIMA.CSV FILE (%gC 23	2005 II 2 CO2 2 CO2 2 CO2 7 P.A.) 88 8 8 7 7 2 7 2 7 7	102,856 Natural Gas Gr 27	133,485 id Electricity 21	969,250 RI Bespole DH Factor	-376,392 EGULATED CO2 EM Electricity generated by (-) if applicable -6	60,888	34,988	0	\$25,085 54P 10 CO2 emissions (μgCO2 p.n.) 143,870	15.5 BRUKKL BER5AP10 (kgC02 / m2) 7.1
Sum NON-D Buildin	55 OMESTICE Ig Use Area (126 ז NERGY CON er unit Numb יי) un זיז נ	1 5 VSUMPTIC VSUMPTIC Tot ber of repr by (2 2	59,126 JON AND O otal area (m ³) 20321	10.4 VALUATIC Calculated BER 2012 (kgCO2 / m2) 21.5	5 IN ONECK BRUKL BRUZ (NgCOZ / m2) 31.5	489,640 Space Heating 20.54	N/A Fuel type Space Heating Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIO Fuel type Domestic Hot Wates Actural Gas	4,615,477	N/A nº p.a.) WE CLEAN' I	-95,513,327,600 RER - SOURCE: BRUKL Total Electricity generated by CNP () if applicable -5.98	263,322 DUTPUT Lighting 17.42	250,163 Auxiliary 2.24	0 Cooling 2.51	105,805 REGULA Natural Gas 17	137,298 TED ENERGY CONSUM Grid Electricity Br 21	995,843 AFTION BY FUEL T Sspoke DH I Factor ge I I I I I I I I I I I I I I I I I I I	-838,401 TYPE (kWh/m* p. Electricity C () C () C () C () C () C () C () C ()	135,625	77,934 SOURCE: BRUKLANP	0 62 **SIMA.CSV FILE 200 (kgC) 23	2005 (2 CO2 2 P.A.) #84 2,207	102,866 Natural Gas G	133,485 id Electricity	969,259 Ri Bespoke DH Factor	-376,392 EGULATED CO2 EM Electricity () () (1 applicable -6	60,88 Alsons fer unit	34,688	0	925,085 SAP 10 CO2 eminisions (vgCO2 p.a.) 143,870	15.5 BRUKL BRUKL (%gC02/m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE Ig Use Area { 20	126 3 NERGY CON er unit Numb 1 ⁹ un 322 3	1 5 VSUMPTIC I Tot ber of repr by (1 2	59,126 ION AND Octa area of the second secon	10.4 VALUDATIO Calculated BER 2012 (kgCC2 / m2) 21.5	- 5 MI CHECK BRUKK BRR 2012 (kgC02 / m2) 11.5	489,640 5pace Heating 10.54	N/A Fuel type Space Heating Astural Gos	633,641 REGULATED I Domestic Kot Water 6.32	N/A NERCY CONSUMPTIC Tusi type Domestic Hot Wates Roburol Giss	4,615,477 N BY END USE (KWh/	N/A *° p.a.) BE CLAN'	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by CVP () if applicable - 3.38	261,322 DUTPUT Lighting	159,163 Auxiliary 2.24	0 Cooling 2.51	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electricity Bo	995,943 AFTION BYFUELT SECOND BYFUEL Factor ge (-838,401 TYPE (kWh/m* p. Electricity CHP CHP CHP CHP CHP CHP CHP CHP CHP CHP	155,625 a) 'HE CLEAN BER A	77,534	0 62 **SIMACSV FILE 0 (%gC 23	2005 2 2 CO2 2 2 p)	102,866 Natural Gas Gr	133,485 id Electricity 21	969,250 Respoke DH Factor	-376,392 EGULATED CO2 EM Electricity OrP (-) It applicable -0	60,889	34,988	8	925,085	15.5 BRUKKL BRE SAPJ0 (%gC02/m2) 7.1
Sum NON-D Buildin	55 OMESTICE 19 Use Area (20	126 J VERGY CON er unit Numit N ⁹ un	1 50 NSUMPTIC Aber of repr (2 2	59,126 ON AND OCT OF THE STATE	10.4 CO2 ANALYSIS Columnated less 2012 (kgC02 / m2)	5 50 N CHECK BRUND (kgC02 / m2) 31.5	489,840 5pace Heating 10.54	N/A Fuel hype Space Heating Noturol Gos	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERCY CONSUMPTION Fuel type Domesic Hot Water Natural Gas	4,615,477	N/A n° p.a.) be clean '	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by OVF () if applicable -3.38	261,322 DUTPUT Lighting	159,163	0 Cooling 2.52	105,805 REGULA Natural Gas I Internet State Stat	137,298 TED ENERGY CONSUR Grid Electricity Bo annonennennennen sente 21	995,943 AFTION BY FUEL T Factor gr (1999) Internet and	-838,401 TYPE (XWh/m*p. Electricity CHP (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	135.625	77,934	0 61 **SIMACSV FILE 000 (%gC 23	2005 2 2 (7)2 2 (7)2 2 (7)3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	102,856 Natural Gas Gr annananan ann 17	133,485 id Electricity 21	969,250 Respoke DH Factor	-376,392 EGULATED CO2 EM Electricity GrP (-) it applicable -5	60,888	34,988	8	825,085	15.6 BRUKL BRE SAPJ0 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill	SS OMESTICE Isg Use Area (20	126 3 NERGY CON er unit Numit ¹⁷ ¹⁷ ¹⁷ ¹⁷ ¹⁷ ¹⁷	1 Si NSUMPTIO Suber of repr (2 2	59,126 Signal and a second sec	10.4 CO2 ANALYSIS VALBATIO Calculated BER 2022 (kgCO2 / m2) 31.5	5 NI CHECK BRUKL BRUK BRUKL BR	489,840	N/A Fuel type Space Heating Notural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTION Fast type Domesic Hot Water Natural Gas	4,615,477	N/A nº p.a.) be cleany	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by CHP () if applicable -3.38	261,322 DUTPUT Lighting	159,161 Auxiliary 2.24	0 Cooling 2.53	105,805 REGULA Natural Gas I 17	137,298 TED ENERGY CONSUR Grid Electricity Bo	995,943 APTION BY FUEL T Factor g (************************************	-838,401 FIFE (kWH/m* p./ Electricity CHP CHP CHP ChP ChP ChP ChP ChP ChP ChP Ch	135.625	77,934	0 62 **SIRA.CSV /TLE (%gC 23	2 CO2 2 CO2 2 (D-2) 488 5,207	102,856 Gr Natural Gas Gr assentationen aur 17	133,485 id Electricity 21	969,250 Response DH Factor	-376,392 EGULATED CO2 EM Electricity GrP () iTagoineate -5	60,888	34,988	0	825,085	15.5 BRUKI, BEL SAPJD (kgCO2 / m2) 7.1
Sum NON-D Buildin Mill Hüll	55 OMESTICE 1g Use Area 26	126 3 NERGY CON er unit Numk V) un	1 Si NSUMPTIC sher of rep nits by (2 2	59,126 Jordal area (m) 20377	10.4 VALIDATIO Calculated HER 2012 (kgCO2 / m2)	5 NN OHLCK. BRUKI BRUKI (kgC02/m2) 31.5	489,849	N/A Faal hype Space Heating Natural Gas	635,641 REGULATED E Domentic Hot Water 6.32	N/A NERGY CONSUMPTION Fast type Domesic Host Water Network Gos	4,615,477	N/A nº p.a.) We CLLAN'	-95,513,327,600 BER - SOURCE: BRUKLO Total Electricity generated by CIP () if applicable -3.38	261,322 DUTPUT LighNing 17.42	159,161	0 Cooling 2.53	105,805 REGULA Natural Gas 17	137,298 TED ENERGY CONSUR Grid Electricity Bo	995,943 AFTION BY FUEL T Factor ge	-838,401 TYPE (kWh/m [*] p.4 Electricity CHP (-) ogpricobe -5.58	135,625	77,934	0 62 **SIM.CSV TILE (%gC 23	2 (305 2 (305) 2 (2 (2 (3)) 3	102,856 Natural Gas Gi assentational and	133,485 id Electricity 21	959,250 Response DH Factor	-376,392 EGULATED CO2 EM Electricity eneroted by () if applicable answere -5	50,858	34,988	0	825,085	15.6 BRUKL BEL SAPJ0 (kgCO2 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE 1g Use Area 22	126 1 NERGY CON er unit Numit v') un	1 Si NSUMPTIC total tota	59,126 otal area (m ²) 20327	10.4 VALDATIO Calculated BER 2012 (kgCO2 / m2)	5 IN OFFICE BRURKL BRU 2022 (kgC 02 / m2) 21.5	489,840	N/A Fuel hype Space Heating Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTION Faal type Domesic Hot Water Neturol Gos	4,615,477	N/A ™p.a.) № CLAAV	-95,513,327,600 BER - SOURCE: BRUKL Total Electricity generated by CHP () if applicable -5.98	261,322 DUTPUT Lighting 37.42	159,161	0 Cooling 2.52	105,805 REGULA Natural Gas (1 17	137,298 TED ENERGY CONSUR Grid Electricity Br REARESEARCH BRAN 21	995,943 APTION BY FULL T spoke DH I Factor ge	-838,401 TYPE (kWh/m ² p.1 Electricity CHP () applicable -5.98	135,625	77,934	0 62 *SIM.CSV TILE (kgC 23	2005 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	102,856	133,485	959,250 Respoke DH Factor	-376,392 KGULATED CO2 EM Electricity generated by (-) (-) (-) (-) (-) (-) (-) (-)	60,888	34,985	0	825,085	15.5 BRUKKL BR5 5A710 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill	55 OMESTICE 1g Use Area 20 20	126 1 NERGY CON er unit Numt 1 ¹) un 122 3	1 Si VSUMPTIC aber of repr aits by (7 2	59,126 John AND Color Co	10.4 VALDATIO Calculated BER 2022 (kgCO2 / m2) 11.5	5 NN CHECK BRUKL BRUKL BRUZL (kgC02/m2) 21.5	489,840	N/A Fuel type Space Heating Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIC Fuel type Domesic Hot Water Ateture) Gas	4,615,477	N/A ™p.a.) BE CLEAN	-95,513,327,600 RER - SOURCE: BRUKL Total Electricity generated by GIP (1 opplicable -5.98	261,322 CUTPUT Lighting 37.42	159,161	0 Cooling 2.57	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electristy Br 21	995,943 AFTION BY FUEL Spoke DH I Factor ge ####################################	-838,401	135,625 a) TE CLIAN EER	77,934	0 61 **SIMA.CSV /TILE (%gCi 23	2005 II II II II II II II II II II II II II	102,866	133,485	960,250 RI Bespole DH Factor	-376,392 RGULATED CO2 EM Recricicly Becrivical () IT applicable -5	60,888	34,688	0	\$25,085 \$49 10 CO2 emissions (μ ₂ CO2 μ.s.) 143,870 143,870	15.5 BRUKL BBU 5.67.00 (kgC02 / m2) 7.1
Sum NON-D Buildin Mill Hill Sum SITE-W	55 OMESTICE 1g Use Area 20 20 1DE ENERG	126 1 NERGY CON er unit Numi 19 122 2 122 3 122 3	1 5: VSUMPTIC abbr of repr (7 2 2 2 2 2 2 2 2 2 2 2 2 2 2	59.126 0 otal area (m ³) 20321 20322 20,321 0 ND CC2 A	10.4 VALDATIO Calculated BER 2022 (kgCO2 / m2) 21.5 21.5	S NN CHECK BRUKL BRUKL BRUKL BRUKL BRUCK BRUCK SCOLONIC 21.5	489,840	N/A Fuel type Space Healing Natural Gas	635,641 REGULATED E Domestic Hot Water 6.32	N/A NERGY CONSUMPTIO Fuel type Domestic Hot Water Returns Gos	4,615,477	₩А ¹⁰ р.в.) № СЦАМ.	-95,513,327,600 RER - SOURCE: BRUKL Total Electricity generated by CHP (1) if applicable -5.98	263,322	250,163	0 Cooling 2.51	105,805 REGULA Natural Gas	137,298 TED ENERGY CONSUM Grid Electricity Br 21	995,943 AFTION BY FUEL Stooke DH I Factor ge Hammanawana Ban Hammanawana Ban	-838,401	135,625	77,934	0 61 **SMA.CSV FILE (%gC 23 23	2005 II CO2 2007 II 2007 II	102,866	133,485	969,250 RI Bespole DH Factor	-376,392 EGULATED CO2 EM Electricity generated by (-) if applicable assessment -5	60,88	34,588	0	925,085 54P 10 CO2 eminicions (μgCO2 μ.s.) 143,870 343,870	15.5 BRUKL (%gCO2/m2) 7.3 7.3
Sum NON-D Buildin Nall Hill Sum SITE-W	20 OMESTICE Ig Use Area (20 20 70E ENERG	125 2 NERGY CON er unit Numi v ¹ un 222 2 321 2	1 Si VSUMPTIC teprof reprints 2 2 2 2 1 28	59.126 0 otal area (m ³) 20321 20,321 ND CO2 Af A	10.4 VALIDATIO Calculated EER 2012 (kgCO2 / m2) 21.5 21.5		489,640	N/A Fuel type Space Heating Natural Gos	635,641 REGULATED E Domestic Hot Water 6.32	N/A NRRGY CONSUMPTIO	4,615,477	N/A ** p.a.) 86 CLAN	-95,513,327,600 BER - SOURCE: BRUKL O Total Electricity generated by OVP () if applicable - 3.98	261,322	25,198	0 Cooling 2.57	105,805 REGULA Natural Gas 17	137,298	995,843	-838,401 TYPE (kWh/m ²). Criticity	135,625	77,934	0 62 **SIMACSV FILE 00 (%C 23 23 23 23 23 23 23 23 23 23 23 23 23	2003 2 2003 2 2 0.005 2 2	102,886 Ga Natural Gas Ga 27 27	133,485	969,250 Ri Bespoke DH Factor	-376,392	EO,88	34,588		925,085	15.6 BRUKL BRUKL BRUKL BRUKL BRUKL (\$2007 m2) 7.1 7.1 7.1 8551005 PER UNIT
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Sum NON-D Buildin Nill Hill Sum SITE-W	20 00/IESTICE 18 Use Area 20 20 20 20 20 20 20 20 20 20 20 20 20	126 3 VERGY CON er unit Numit 127 3 127	1 SI NSUMPTIO Suber of repr 2 2 2 2 1 2 PTION ANI Vea (m ³)	59,126	10.4 CO2 ANALYSIS (4,CC2 / m2) (4,CC2 / m2) 21.5	S NN CHECK BERVEL BERVE	489,840 Space Heating	N/A Fuel Hype Space Heating Noturol Gos	633,641 RECULATED E Domestic Hot Water 6.32	N/A NERCY CONSUMPTION Fast type Domesic Hot Water Austural Gos N/A	4,615,477 N BY END USE (NWh/	N/A nº p.a.) BE CLEAN W ^R ONSUMPTION	-95,513,327,600 BER - SOURCE: BRURL C Total Electricity generated by CHF (261,322	159,163 Auxiliary 2.24 25,198 Auxiliary	0 Cooling 2.57 51,006	105,805 REGULA Natural Gas 1 27 27 27	137,298 TED ENERGY CONSUL Grid Electricity Br 21 21 21	995,943 AFTION BYFUELT Factor gr () Issuescence and () Issuescence and	-838,401 TYPE (KWh/m ¹ p. Electricity CHP	135,625	77,954	0 61 **SIAC.SV FILE 0 23 23 23 23 23 24 23 24 24 24 24 24 24 24 24 24 24 24 24 24	2,005 2 2 CO22 2 CO22 2 D-J. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	102,856 Gr Natural Gas Gr 2000000000000000000000000000000000000	133,485	969,250	-6	60,855	34,988	8	825,085	15.6 BRUKI, BRUKI, BRUKI, CALONZ 7.1 7.1 7.1 7.1 7.1 7.1 855005 PER UNIT
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Mill Hill

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The applicant shoul	IERGY CON	the light blue cel	cells including in	formation on the	e 'be green' energy	r consumption figure	res and the 'be green	"DER.															SAP 2012 CO2 PI	FORMANCE								SAP10 CO2 PER	RFORMANCE				
DOMESTICEN	EKOT CON.	JOINIP HOIV	TAND CO21	VALIDAT	TION CHECK	1					REGULATED ENER	GY CONSUMPTION P	ER UNIT (kWh p.a.)	'BE GREEN' SAP DER	WORKSHEET					1		REGU	LATED CO2 EMISSION	PER UNIT (kgCO2 p.a)						R	EGULATED CO2 EM	ISSIONS PER UNIT				
Unit identifier (e.g. plot number, dwelling twne etc.)	Model total floor area (m²)	Number of r units	Total area represented by model (m ²)	Calculated DER 2012 (lorCO2 / m2)	DER Worksheet DER 2012 Der CO2 / m2)	Space Heating (Heat Source 1)	Fuel type Space Heating	Domestic Hot Wate (Heat Source 1)	Fuel type Domestic Hot Water	Space Heating (Heat source 2)	Fuel type Space Heating	Domestik Hot Water Dieat source 2)	Fuel type Domestic Hot Wat	Space and er Domestic Hot Water from CHP	Fuel type CHP	Total Electricity generated by CHP (Electricity generated by renewable (-)	Lighting	Audiliary Cooli	g Space Heating	Domestic Hot Sp Water an	ace Heating Electric DHW from generic CHP I	ctricity Electri rated by generati CHP renewo	ty Lighting I by de	Audilary	Cooling 2	12 CO2 Sp nissions	ace Heating Dom V	estic Hot Space Nater and I CHP	e Heating DHWfrom 1	Electricity generated by CHP	Electricity generated by renowable	Lighting	Azdilary	Cooling	SAPLO CO2 emissions (krCO2 p.a.)	Calculated DER SAP10 BerCO2 / m2)
410 000			v y	(allowed and)	DER Sheet	DER Sheet	Select fuel type	DER Sheet	Select fuel type	if applicable DER Sheet	Select fuel type	if applicable DER Sheet	Select fuel type	if applicable DER Sheet	if applicable Select fuel type	if applicable DER Sheet	if applicable DER Sheet	DER Sheet	DER Sheet DER St	et	i	applicable if ap	plicable if applic	ble					if	applicable	if applicable	if applicable				(Accer busy	(good) and
					(Row 384)	(Row 307b + (Row 367b x 0.01))		[Row 310b + (Row 367b x 0.01)]		(Row 307c + (Row 367c x 0.01))		[Row 310 c + (Row 367 c x 0.01)]		(Row 307a + 310a (Row 362 x 0.01)	a) 1	[(Row 307a + 310a) × (Row 361 + 362)]	Row 380	Row 332	ow 313 + 331) Row 3	5																	
All	59126.11	1	59126.13	9.0	9,0	489839.5064	Natural Gas	635640.7223	Natural Gas	a	Natural Gas	D	Natural Gas	4615477.354	Natural Gas	-1615417.074	-161690	261322.26	150161.0982 0	105,805	137,298	996,943 -83	18,401 -83,9	135,626	77,934	0	31,288	102,866 13	13,485	969,250	-376,392	-37,674	60,888	34,988	0	887,411	15.0
Sum	59,126	1	59,126	9.0		489,840	N/A	635,641	N/A	0	N/A	0	N/A	4,615,477	N/A	95,513,327,609	-161,690	261,322	150,161 0	105,005	137,298	996,943 83	38,401 -83,9	7 135,626	<i>77 p</i> 34	0	31,288	102,866 13	13,405	969,250	-376,392	-37 /674	60,888	34,268	0	887,411	15.0
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Sum NON-DOMEST	59,126 NC ENERGY	1 Y CONSUMP	59,126 PTION AND	9.0 CO2 ANALYS VALIDAT Galculated	SIS TION CHECK RRUND	489,840	N/A Euclipme	635,641	N/A	0 BEG	N/A RALATED ENERGY COM	B ASUMPTION BY END (N/A JSE (KWħ/m² p.a.) 1	4,615,477 BE GREEN BER - SOUR	N/A CCE: BRUKL OUTPUT	95,513,327,600 Electricity	-161,690 Electricity	261,322	150,161 0 Autilian Coni	105,805	137,298 REGULATED ENERG	996,943 83 Y CONSUMPTION BY I	18,401 -83,9 FUEL TYPE (KMA/m ² p ctokity Electri	7 135,626 .) 'BE GREEN' BER - S	77,934 OURCE: BRUKLINP or 1	0 SIM. CSV FILE	31,288	192,866 13 http://www.co.co.co.co.co.co.co.co.co.co.co.co.co.	13,405	969,258 esaake DH	-376,392 Bectricity	-37 674 REGULATED CO2 EM	60,888 RESSIONS PER UNIT	34,968	0 Enter Cathon	887,411 56P10 (02	15.0 BRUKI
Sum NON-DOMEST Use	59,126 TIC ENERGY Area per unit (m ²)	1 CONSUMP Number of r units	59,126 PTION AND Total area represented by model	9.8 CO2 ANALYS VALIDAT Calculated BER 2012 (kgC02 / m2)	SIS TION CHECK BER 2012 (bgc02 / m2)	489,840	N/A Fuel type Space Heating	635,641 Domestic Hot Wate	N/A Fuel type Domestic Hot Water	0 REG	N/A RULATED ENERGY COM	0 Isumption by END (N/A JSE (6446/m² p.a.) 'I	4,615,477 BE GREEN' BER - SOUR	N/A ICE: BRUKL OUTPUT	95,513,327,600 Electricity generated by OiP ()	-161,690 Electricity generated by renewable	261,322 Lighting	159,161 0 Auxiliary Coel	105,005 g Natural Gas	137,298 REGULATED ENERG Grid Electricity B	996,943 43 Y CONSUMPTION BY Espake DH Elec Factor gene	RUEL TYPE (KAM/m ² p EUEL TYPE (KAM/m ² p Etskily Electri rated by generati CIP renewa	7 135,626 .) 'BE GREEN' BER - 5 Ry Enter Carbon by Factor 1 le	77,934 OURCE: BRUKLINP or ' Enter Carbon Factor 2	0 SIM. CSV FILE Enter Carbon Factor 3 (k	32,288 12 CO2 hissions CO2 p.a.)	102,066 13 Natural Gas Grid B	13,485 : Electricity Be	969,258 espoke DH Factor (-376,392 R Electricity CHP	-37,674 EGULATED CO2 EM Electricity I renerated by	60,808 MISSIONS PER UNNT Enter Carbon Factor 1	34,908 Enter Carbon Factor 2	0 Exter Carbon Factor 3	887,413 SAPL® CO2 emissions	15.0 BRUNL BER SAPLO (kgCO2 / m2)
Sum NON-DOMEST Use	59,126 TIC ENERGY Area per unit (m²)	1 [•] CONSUMP [•]	59,126 PTION AND Total area represented by model (m ²)	9.8 CO2 ANALYS VALIDAT Calculated BER 2012 (logCO2 / m2)	SIS TION CHECK BER 2012 (bgcoz / m2)	489,840	N/A Fuel type Space Heating	635,641 Domestik Hot Wate	N/A r Fuel type Domestic Hot Water	0 REG	N/A	0 Isumption by End U	N/A JSE (6446/m² p.a.) Y	4,615,477 36 green ber - Sour	N/A ICE: BRUKL OUTPUT	95,513,327,600 Hertricity generated by OIP ()	-161,690 Electricity generated by renewable technology ()	261,322 Lighting	150,161 0 Audilary Coel	205,005 g Natural Gas	137,298 REGULATED ENERG Grid Electricity B	996,943 43 r CONSUMPTION BY I respoke DH Elec Factor gene f	18,401 -83,9 FUELTYPE (KM/m ² p Ethicity Electri ated by generat CHP renews (-) techno (-) forote # septim	7 135,626 -) 'BE GREEN' BER - S by Enter Carbor Day Factor 1 le gr St	77,034 OURCE: BRUKLINP or Enter Carbon Factor 2	0 IM.CSV FILE Exter Carbon 2 e Factor 3 0c	83, 288 12 CO2 8 ilssions 102 p.a.)	102,865 13 Intural Gas Gaid I	13,485	969,250 espoke DH Factor (376,392 R Electricity generated by CHP () If applicable	-37,674 EGULATED CO2 EM Electricity (1 generated by renevable technology (c) if applicable	60,888 MSSIONS PER UNIT Enter Carbon Factor 1	34,988 Enter Carbon Factor 2	0 Enter Carbon Factor 3	887,413 SAPLO CO2 emissions	15.0 BRUKL BER SAPLO (kgCO2 / m2)
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SAP 2012 PERFORMANCE

DOMESTIC

Table 1: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for domestic buildings

	Carbon Dioxide Emission (Tonnes CO	ns for domestic buildings ₁ per annum)
	Regulated	Unregulated
Baseline: Part L 2013 of the Building Regulations Compliant Development	1,014	1,122
After energy demand reduction	978	1,122
After heat network / CHP	615	1,122
After renewable energy	531	1,122

Table 2: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for domestic buildings

	Regulated domestic c	arbon dioxide savings
	(Tonnes CO ₂ per annum)	(%)
Savings from energy demand reduction	36	4%
Savings from heat network / CHP	363	36%
Savings from renewable energy	84	8%
Cumulative on site savings	483	48%
Annual savings from off-set payment	531	-
	(Tonne	es CO2)
Cumulative savings for off-set payment	15,939	-
Cash in-lieu contribution (£)	956,319	

NON-DOMESTIC

Table 3: Carbon Dioxide Emissions after each stag	e of the Energy Hierarchy for non-domestic buildings
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	Carbon Dioxide Emissions (Tonnes CO2	for non-domestic buildings ? per annum)
	Regulated	Unregulated
Baseline: Part L 2013 of the Building Regulations Compliant Development	301	122
After energy demand reduction	260	122
After heat network / CHP	234	122
After renewable energy	234	122

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SAP10 PERFORMANCE

Table 1: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for domestic buildings

	Carbon Dioxide Emissions for domestic buildings (Tonnes CO ₂ per annum)							
	Regulated	Unregulated						
Baseline: Part L 2013 of the Building Regulations Compliant Development	897	504						
After energy demand reduction	839	504						
After heat network / CHP	925	504						
After renewable energy	887	504						

Table 2: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for domestic buildings

	Regulated domestic c	arbon dioxide savings
	(Tonnes CO ₂ per annum)	(%)
Savings from energy demand reduction	58	6%
Savings from heat network / CHP	-86	-10%
Savings from renewable energy	38	4%
Cumulative on site savings	10	1%
Annual savings from off-set payment	887	-
	(Tonne	es CO2)
Cumulative savings for off-set payment	26,622	-
Cash in-lieu contribution (£)	1,597,339	

Table 3: Carbon Dioxide Emissions after each stage of the Energy Hierarchy for non-domestic buildings

	Carbon Dioxide Emissions (Tonnes CO2	for non-domestic buildings ! per annum)
	Regulated	Unregulated
Baseline: Part L 2013 of the Building Regulations Compliant Development	157	55
After energy demand reduction	136	55
After heat network / CHP	144	55
After renewable energy	144	55

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Table 4: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for non-domestic buildings

	Regulated non-domestic carbon dioxide savings		
	(Tonnes CO ₂ per annum)	(%)	
Savings from energy demand reduction	41	13%	
Savings from heat network / CHP	26	9%	
Savings from renewable energy	0	0%	
Total Cumulative Savings	67	22%	

Table 5: Shortfall in regulated carbon dioxide savings

	Annual Shortfall (Tonnes CO ₂)	Cumulative Shortfall (Tonnes CO ₂)
Total Target Savings	105	-
Shortfall	39	1,156
Cash in-lieu contribution (£)	69,330	-

SITE-WIDE

	Total regulated emissions (Tonnes CO2 / year)	CO2 savings (Tonnes CO2 / year)	Percentage savings (%)
Part L 2013 baseline	1,315		
Be lean	1,239	77	6%
Be clean	849	389	30%
Be green	765	84	6%
	-	CO2 savings off-set (Tonnes CO2)	-
Off-set	-	17,094	-

Table 4: Regulated Carbon Dioxide savings from each stage of the Energy Hierarchy for non-domestic buildings

	Regulated non-domestic carbon dioxide savings		
	(Tonnes CO ₂ per annum)	(%)	
Savings from energy demand reduction	21	13%	
Savings from heat network / CHP	-7	-5%	
Savings from renewable energy	0	0%	
Total Cumulative Savings	13	8%	

Table 5: Shortfall in regulated carbon dioxide savings

	Annual Shortfall (Tonnes CO₂)	Cumulative Shortfall (Tonnes CO ₂)
Total Target Savings	55	-
Shortfall	42	1,251
Cash in-lieu contribution (£)	75,032	-

	Total regulated emissions (Tonnes CO2 / year)	CO2 savings (Tonnes CO2 / year)	Percentage savings (%)
Part L 2013 baseline	1,055		
Be lean	976	79	7%
Be clean	1,069	-93	-9%
Be green	1,031	38	4%
		CO2 savings off-set (Tonnes CO2)	-
Off-set	-	27,873	-

Building use	Energy demand following energy efficiency measures (MWh/year)						
Building use	Space Heating	Hot Water	Lighting	Auxilary	Cooling	Unregulated electricity	Unregulated gas
Domestic	1313	1704	261	150	0	31.54428359	0
Non-domestic	96	58	352	25	254	234.27498	0

	Target Fabric Energy Efficiency (kWh/m²)	Dwelling Fabric Energy Efficiency (kWh/m²)	Improvement (%)
Development total	44.64	46.15	-3%

	Area weighted average non-domestic cooling demand (MJ/m ²)	Total area weighted non-domestic cooling demand (MJ/year)	
Actual	45.144	917371.224	
Notional	42.264	858846.744	

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6/6