Building Regulations England Part L (BREL) Compliance Report

Approved Document L1 2021 Edition, England assessed by Stroma SAP 10.2 SAP 10 program, 10.2

Date: Mon 15 Aug 2022 08:28:51

Project Information			
Assessed By	David Barsted	Building Type	Flat, Detached
OCDEA Registration	STRO032333	Assessment Date	2022-08-11

Dwelling Details			
Assessment Type	As designed	Total Floor Area	110 m^2
Site Reference	7-8 Jeffreys Place	Plot Reference	7-8 Jeffreys Place
Address	Apartment 3, 8 Jeffreys Place, LONDON, NW1 9PP		

Client Details	
Name	Not Provided
Company	Not Provided
Address	Not Provided, Not Provided

This report covers items included within the SAP calculations. It is not a complete report of regulations compliance.

1a Target emission rate and dwelling emission rate		
Fuel for main heating system	Electricity	
Target carbon dioxide emission rate	*8.75 $kgCO_2/m^2$*	
Dwelling carbon dioxide emission rate	4.23 $kgCO_2/m^2$	OK
1b Target primary energy rate and dwelling primary energy		
Target primary energy	*45.42 kWh_{PE}/m^2*	
Dwelling primary energy	45.39 kWh_{PE}/m^2	OK
1c Target fabric energy efficiency and dwelling fabric energy efficiency		
Target fabric energy efficiency	*30.2 kWh/m^2*	
Dwelling fabric energy efficiency	26 kWh/m^2	OK

2a Fabric U-values				
Element	***Maximum permitted average U-Value [W/m^2K]***	**Dwelling average U-Value [W/m^2K]**	**Element with highest individual U-Value**	
External walls	*0.26*	0.18	EF (0.18)	OK
Party walls	*0.2*	N/A	N/A	**N/A**
Curtain walls	*1.6*	N/A	N/A	**N/A**
Floors	*0.18*	N/A	N/A	**N/A**
Roofs	*0.16*	0.1	Sloped Roof (0.1)	OK
Windows, doors, and roof windows	*1.6*	0.9	1 (0.9)	OK
Rooflights	*2.2*	N/A	N/A	**N/A**

2b Envelope elements (better than typically expected values are flagged with a subsequent (!))		
Name	**Net area [m^2]**	**U-Value [W/m^2K]**
Exposed wall: EF	68.457	0.18
Exposed roof: Sloped Roof	110.74	0.1 **(!)**

2c Openings (better than typically expected values are flagged with a subsequent (!))				
Name	**Area [m^2]**	**Orientation**	**Frame factor**	**U-Value [W/m^2K]**
1, Windows (1)	9.648	West	0.7	0.9 **(!)**
2, Windows (1)	0.64	South	0.7	0.9 **(!)**
3, Windows (1)	0.64	South	0.7	0.9 **(!)**
4, Windows (1)	0.64	South	0.7	0.9 **(!)**
5, Windows (1)	0.64	South	0.7	0.9 **(!)**
6, Windows (1)	0.64	South	0.7	0.9 **(!)**
7, Windows (1)	0.64	South	0.7	0.9 **(!)**
8, Windows (1)	0.64	North	0.7	0.9 **(!)**
9, Windows (1)	0.64	North	0.7	0.9 **(!)**
10, Windows (1)	0.64	North	0.7	0.9 **(!)**
11, Windows (1)	0.64	North	0.7	0.9 **(!)**
12, Windows (1)	0.64	North	0.7	0.9 **(!)**
13, Windows (1)	0.64	North	0.7	0.9 **(!)**
14, Windows (1)	0.945	East	0.7	0.9 **(!)**

2d Thermal bridging (better than typically expected values are flagged with a subsequent (!))
Building part **1 - Main Dwelling**: SAP default y-value (0.2 W/m^{2}K) used for thermal bridging

3 Air permeability (better than typically expected values are flagged with a subsequent (!))		
Maximum permitted air permeability at 50Pa	*8 m^3/hm^2*	
Dwelling air permeability at 50Pa	3 m^3/hm^2, Design value **(!)**	OK
Air permeability test certificate reference	Not Provided	

4 Space heating	
Main heating system 1: Heat pump with radiators or underfloor heating - Electricity	
Efficiency	319.6%
Emitter type	Underfloor
Flow temperature	35°C
System type	
Manufacturer	NIBE
Model	F2040-6
Commissioning	
Secondary heating system: N/A	
Fuel	N/A
Efficiency	N/A
Commissioning	

5 Hot water	
Cylinder/store - type: Cylinder	
Capacity	300 litres
Declared heat loss	2.59 kWh/day
Primary pipework insulated	Yes
Manufacturer	
Model	
Commissioning	
Waste water heat recovery system 1 - type: N/A	
Efficiency	
Manufacturer	
Model	

6 Controls	
Main heating 1 - type: Time and temperature zone control by arrangement of plumbing and electrical services	
Function	
Ecodesign class	
Manufacturer	
Model	
Water heating - type: Cylinder thermostat and HW separately timed	
Manufacturer	
Model	

7 Lighting		
Minimum permitted light source efficacy	*75 lm/W*	
Lowest light source efficacy	105 lm/W	OK
External lights control	N/A	

8 Mechanical ventilation		
System type: N/A		
Maximum permitted specific fan power	*N/A*	
Specific fan power	N/A	**N/A**
Minimum permitted heat recovery efficiency	*N/A*	
Heat recovery efficiency	N/A	**N/A**
Manufacturer/Model		
Commissioning		

9 Local generation
N/A

10 Heat networks
N/A

11 Supporting documentary evidence
N/A

12 Declarations

a. Assessor Declaration

This declaration by the assessor is confirmation that the contents of this BREL Compliance Report are a true and accurate reflection based upon the design information submitted for this dwelling for the purpose of carrying out the "As designed" assessment, and that the supporting documentary evidence (SAP Conventions, Appendix 1 (documentary evidence) schedules the minimum documentary evidence required) has been reviewed in the course of preparing this BREL Compliance Report.

Signed:	Assessor ID:
Name:	Date:

b. Client Declaration

N/A