Part L Specification

BER IS NOT PUBLISHED

Property Details

Dwelling Type	Detached house	**Type of BER rating**	New Dwelling - Provisional
Address line 1	[redacted]	**Year of Construction**	2020
Address line 2	[redacted]	**Date of Assessment**	23/02/2021
Address line 3		**Date of Plans**	
County	[redacted]	**Planning Reference**	
Eircode		**Building Regulations**	2019 TGD L
BER Number		**MPRN No.**	0
Purpose of Rating	New dwelling for owner occupation	**Is MPRN shared with another dwelling?**	N/A
Assessor Name	[redacted]	**Assessor Number**	102595
Comment	Heat pump & MVHR to be designed and sized by suppliers consultant.	**BER number assigned to shared dwelling**	N/A

Dimension Details

	Area [m^2]	Height [m]	Volume [m^3]
Ground Floor	242.40	2.77	671.45
First Floor	0.00	0.00	0.00
Second Floor	0.00	0.00	0.00
Third and other floors	0.00	0.00	0.00
Room in roof	0.00	0.00	0.00
Total Floor Area	242.40		671.45

Living Area [m^2]	93.66	**Living area percentage [%]**	38.64
No of Storeys	1		

Ventilation Details

	Number		
Chimneys	0	**Has permeability test been carried out?**	Yes
Open Flues	0	**Structure type**	N/A
Fans & Vents	1	**Is there a suspended wooden ground floor?**	No
Number of flueless combustion room heaters	0	**Percentage windows/doors draught stripped [%]**	N/A
Is there a draught lobby on main entrance?	No	**Number of sides sheltered**	0
Ventilation method	Balanced whole-house mechanical ventilation with heat recovery	**Mechanical Ventilation Manufacturer**	ProAir
Specific fan power [W/(L/s)]	0.890	**Mechanical Ventilation Model Name**	PA600LI
Heat exchanger efficiency [%]	90.00	**How many wetrooms (incl. kitchen)?**	Kitchen and 4 wet rooms, rigid ducting

Building Elements - Floor Details

Type	Description	Underfloor heating	U-Value [W/m²K]	Area [m²]
Ground Floor - Solid	150mm Xtratherm XT-UF	Yes	0.12	242.4

Building Elements - Roof Details

Type	Description	U-Value [W/m²K]	Area [m²]
Pitched Roof - Insulated on Ceiling	400mm Quilt between and over joists	0.12	232.4
Pitched Roof - Insulated on Ceiling	Walkway Platform - 150mm Quilt between joists & 100mm Xtratherm XT-PR over	0.13	10

Building Elements - Wall Details

Type	Description	U-Value [W/m²K]	Area [m²]
300mm Cavity	145mm Xtratherm Cavitytherm CT-PIR	0.14	186.89

Building Elements - Door Details

Description	Number of Doors	U-Value [W/m²K]	Area [m²]
Front door - T.B.C.	1	1.4	3.780
Rear door (T.B.C.)	1	1.4	1.890

Building Elements - Window Details

Glazing type	User defined u-value	U-Value [W/m²K]	Area [m²]
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	13.800
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	3.250
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	3.290
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	1.050
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	8.580
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	12.600
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	1.260
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	3.150
Triple-glazed, argon filled (low-E, en = 0.15, hard coat)	Yes	0.850	3.250

Other Details

Thermal bridging factor [W/m²k]	0.1500	**Thermal mass category of dwelling**	Medium-high

Heating System - Solar Water Heating

Solar Water Heating Present?	No	**Aperture area of solar collector [m²]**	N/A
Type, manufacturer, model	N/A		
Zero loss collector efficiency, n0	N/A	**Collector heat loss coefficient, a1 [W/m²>K]**	N/A
Annual Solar Radiation [kWh/m²] (Refer to Appendix H in DEAP)	N/A	**Overshading factor**	N/A
Dedicated storage volume [Litres]	N/A	**Combined Cylinder**	N/A
Solar fraction [%]	0.000		

Heating System - Hot Water System

Distribution Losses	404.79	**Combi boiler present?**	No
Supplementary electric water heating	N/A	**Water Storage Volume [L]**	230
Hot water storage manufacturer and model name	Daikin EHVH08S23D6V(G)	**Declared loss factor [kWh/d]**	1.40
Temperature factor unadjusted	0.89	**Temperature Factor Multiplier**	0.81
Primary Circuit loss type	Boiler and thermal store within a single casing (cylinder thermostat present)		
Is hot water storage indoors or in group heating system?	Yes	**Insulation type**	None
Insulation thickness [mm]	0		

Heating System - Dist. system losses and gains

Temperature adjustment [°C]	0	**Control Category**	3	**Responsiveness category**	2
Central heating pumps	1	**Oil Boiler Pump**	0	**Oil boiler pump inside dwelling**	No
Gas boiler flue fan	0	**Warm air heating or fan coil radiators present**	No		

Heating System - Energy Requirements (Individual)

Main space heating system efficiency [%]	480.19	**Space heating efficiency adjustment factor**	1.0000	**Main space heating fuel**	Electricity
Main water heating system efficiency [%]	229.67	**Water heating efficiency adjustment factor**	1.0000	**Main water heating fuel**	Electricity
Secondary heating system efficiency [%]	70	**Fraction of heating from secondary heating system**	0.10	**Secondary space heating system fuel**	Solid Multi-Fuel
Fraction of main space and water heat from CHP	N/A	**Electrical efficiency of CHP**	N/A	**Heat efficiency of CHP**	N/A
CHP Fuel type	N/A				

Summary for Part L Conformance (Applies to TGD L 2008/2011/2019 for new dwellings only)

BER Number		**Building Regulations**	**2019 TGD L**
BER Result	A2	**Energy Value kWh/m²/yr**	**45.84**
CO_2 emissions [kg/m²/yr]	9.98		
EPC	0.283	**EPC Pass/Fail**	**Pass**
CPC	0.290	**CPC Pass/Fail**	**Pass**

Part L Conformance - Fabric

Conformity with Maximum avg U-value requirements	**U-value [W/m²K]**	**Pass/Fail**	**Conformity with Maximum U-value requirements**	**U-Value [W/m²K]**	**Pass/Fail**
Pitched roof insulated on ceiling	0.12	Pass	**Roofs**	0.13	Pass
Pitched roof insulated on slope	0	Pass	**Walls**	0.14	Pass
Flat Roof	0	Pass	**Floors**	0.12	Pass
Floors with no underfloor heat	0.00	Pass	**External doors / windows / rooflights**	1.40	Pass
Floors with underfloor heat	0.12	Pass			
Walls	0.14	Pass			
Percentage of opening areas [%]	23.06				
Average U value of openings	0.91	Pass			

Permeability test carried out and meets guidelines in TGD L 0.15 | Pass

Part L Conformance - Renewables (applies to TGD L 2019)

	Source	Renewables Primary Energy	Total Primary Energy	RER
+ Delivered energy	PV/Wind	0.00	0.00	
+ Delivered energy	Other	0.00	0.00	
+ Delivered energy	Solar	0.00	0.00	
+ Delivered energy	Biomass	0.00	0.00	
+ Delivered energy	Biodiesel	0.00	0.00	
+ Delivered energy	Bioethanol	0.00	0.00	
+ Environmental energy	HP	9342.17	9342.17	
+ Saved energy	CHP	0.00	0.00	
+ District heating	District Heating	0.00	0.00	
+ Delivered energy	Grid	0.00	9421.57	
+ Delivered energy	Thermal	0.00	1690.45	
SUBTOTAL		9342.17	20454.20	0.46 - Pass
Energy not used in Regulated Loads	PV/Wind/CHP	0.00	0.00	
TOTAL		9342.17	20454.20	0.46