

Part L Specification

BER IS NOT PUBLISHED

Property Details

Dwelling Type	Detached house	Type of BER rating	Existing Dwelling
Address line 1	Earth House,	Year of Construction	2008
Address line 2	Derrynalecka,	Date of Assessment	15/06/2021
Address line 3		Date of Plans	
County		Planning Reference	
Eircode	F12HP63	Building Regulations	2019 TGD L
BER Number		MPRN No.	0
Purpose of Rating	Major Renovation	Is MPRN shared with another dwelling?	N/A
Assessor Name		BER number assigned to shared dwelling	N/A
Comment			

Dimension Details

	Area [m ²]	Height [m]	Volume [m ³]	
Ground Floor	134.74	2.50	336.85	
First Floor	75.69	2.44	184.68	
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	210.43		521.53	
Living Area [m ²]	17.64			Living area percentage [%] 8.38
No of Storeys	2			

Ventilation Details

	Number		
Chimneys	0	Has permeability test been carried out?	No
Open Flues	0	Structure type	Masonry
Fans & Vents	0	Is there a suspended wooden ground floor?	No
Number of flueless combustion room heaters	0	Percentage windows/doors draught stripped [%]	100.00
Is there a draught lobby on main entrance?	No	Number of sides sheltered	1
Ventilation method	Balanced whole-house mechanical ventilation with heat recovery	Mechanical Ventilation Manufacturer	Vent Axia
Specific fan power [W/(L/s)]	0.630	Mechanical Ventilation Model Name	Sentennial Model B Plus
Heat exchanger efficiency [%]	90.00	How many wetrooms (incl. kitchen)?	2+k

Building Elements - Floor Details

Type	Description	Underfloor heating	U-Value [W/m ² K]	Area [m ²]
	Ground Floor - Solid	No	0.31	134.74
	Non-Heat Loss Floor	N/A	0	75.69

Building Elements - Roof Details

Type	Description	U-Value [W/m ² K]	Area [m ²]
	Pitched Roof - Insulated on Ceiling	0.13	48.37
	Pitched Roof - Insulated on Ceiling	0.14	121.7

Building Elements - Wall Details

Type	Description	U-Value [W/m ² K]	Area [m ²]
	300mm Cavity	0.27	126.35

Building Elements - Door Details

Description	Number of Doors	U-Value [W/m ² K]	Area [m ²]
	1	3	3.700

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Building Elements - Window Details

Glazing type	User defined u-value	U-Value [W/m ² K]	Area [m ²]
Double-glazed, air filled (low-E, en = 0.05, soft coat)	Yes	1.700	5.220
Double-glazed, air filled (low-E, en = 0.05, soft coat)	Yes	1.700	7.560
Double-glazed, air filled (low-E, en = 0.05, soft coat)	Yes	1.700	5.940
Double-glazed, air filled (low-E, en = 0.05, soft coat)	Yes	1.700	0.600
Triple-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.000	7.300

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Other Details

Thermal bridging factor [W/m ² k]	0.1500	Thermal mass category of dwelling	Medium-high
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Heating System - Solar Water Heating

Solar Water Heating Present?	Yes	Aperture area of solar collector [m ²]	8.800
Type, manufacturer, model	Evacuated tube, Photonomi Global Group a.r.l., 501 4		
Zero loss collector efficiency, n0	0.750	Collector heat loss coefficient, a1 [W/m ² >K]	2.368
Annual Solar Radiation [kWh/m ²] (Refer to Appendix H in DEAP)	1074	Overshading factor	1
Dedicated storage volume [Litres]	150	Combined Cylinder	No
Solar fraction [%]	62.389		

Heating System - Hot Water System

Distribution Losses	401.05	Combi boiler present?	No
Supplementary electric water heating	N/A	Water Storage Volume [L]	300
Hot water storage manufacturer and model name	HONE	Declared loss factor [kWh/d]	1.92
Temperature factor unadjusted	0.6	Temperature Factor Multiplier	0.9
Primary Circuit loss type	Boiler with insulated primary pipework and with cylinder thermostat		
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	1
Central heating pumps	1	Oil Boiler Pump	1	Oil boiler pump inside dwelling	Yes
Gas boiler flue fan	0	Warm air heating or fan coil radiators present	No		

Heating System - Energy Requirements (Individual)

Main space heating system efficiency [%]	94.9	Space heating efficiency adjustment factor	1.0000	Main space heating fuel	Heating Oil
Main water heating system efficiency [%]	94.9	Water heating efficiency adjustment factor	1.0000	Main water heating fuel	Heating Oil
Secondary heating system efficiency [%]	N/A	Fraction of heating from secondary heating system	N/A	Secondary space heating system fuel	None
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/m ² /yr	39.81
CO ₂ emissions [kg/m ² /yr]	11.41		
EPC	0.309	EPC Pass/Fail	Fail
CPC	0.423	CPC Pass/Fail	Fail

Part L Conformance - Fabric

Conformity with Maximum avg U-value requirements	U-value [W/m ² K]	Pass/Fail	Conformity with Maximum U-value requirements	U-Value [W/m ² K]	Pass/Fail
Pitched roof insulated on ceiling	0.14	Pass	Roofs	0.14	Pass
Pitched roof insulated on slope	0	Pass	Walls	0	Pass
Flat Roof	0	Pass	Floors	0.31	Pass
Floors with no underfloor heat	0.31	Fail	External doors / windows / rooflights	3.00	Pass
Floors with underfloor heat	0.00	Pass	Meets Part L maximum avg U-value requirement for opaque elements using TGD L Section 1.3.2.3		Fail
Walls	0.00	Pass			
Percentage of opening areas [%]	16.17				
Average U value of openings	1.88	Fail			
Permeability test carried out and meets guidelines in TGD L					Fail

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

	Source	Renewables Primary Energy	Total Primary Energy	RER
+ Delivered energy	PV/Wind	8756.97	8756.97	
+ Delivered energy	Other	818.00	818.00	
+ Delivered energy	Solar	1668.08	1668.08	
+ Delivered energy	Biomass	0.00	0.00	
+ Delivered energy	Biodiesel	0.00	0.00	
+ Delivered energy	Bioethanol	0.00	0.00	
+ Environmental energy	HP	0.00	0.00	
+ Saved energy	CHP	0.00	0.00	
+ District heating	District Heating	0.00	0.00	
+ Delivered energy	Grid	0.00	-6505.15	
+ Delivered energy	Thermal	0.00	14882.52	
SUBTOTAL		11243.05	19620.42	0.57 - Pass
Energy not used in Regulated Loads	PV/Wind/CHP	0.00	-6505.15	
TOTAL		11243.05	26125.57	0.43

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