

Part L Specification

BER IS NOT PUBLISHED

Property Details

Dwelling Type	Detached house	Type of BER rating	New Dwelling - Provisional
Address line 1	TYPE B1/B2	Year of Construction	2020
Address line 2		Date of Assessment	16/03/2021
Address line 3		Date of Plans	
County	Co. Offaly	Planning Reference	
Eircode		Building Regulations	2019 TGD L
BER Number		MPRN No.	0
Purpose of Rating	Sale	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	61.44	2.63	161.59	
First Floor	61.44	2.78	170.80	
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	122.88		332.39	
Living Area [m ²]	19.57			Living area percentage [%] 15.93
No of Storeys	2			

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	2
Ventilation method	Balanced whole-house mechanical ventilation with heat recovery	Mechanical Ventilation Manufacturer	Vent Axia
Specific fan power [W/(L/s)]	0.550	Mechanical Ventilation Model Name	Sentennial Model B Plus
Heat exchanger efficiency [%]	92.00	How many wetrooms (incl. kitchen)?	3

Building Elements - Floor Details

Type	Description	Underfloor heating	U-Value [W/m ² K]	Area [m ²]
	Ground Floor - Solid	No	0.162	61.44
	Non-Heat Loss Floor	N/A	0	61.44

Building Elements - Roof Details

Type	Description	U-Value [W/m ² K]	Area [m ²]
	Pitched Roof - Insulated on Ceiling	0.12	61.44

Building Elements - Wall Details

Type	Description	U-Value [W/m ² K]	Area [m ²]
	Timber Frame	0.15	154.99

Building Elements - Door Details

Description	Number of Doors	U-Value [W/m ² K]	Area [m ²]
	1	1.6	2.110

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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, argon filled (low-E, en = 0.05, soft coat)	Yes	1.360	9.000
Double-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.360	9.270
Double-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.360	1.890

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Other Details

Thermal bridging factor [W/m ² k]	0.0800	Thermal mass category of dwelling	Medium-low
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Heating System - Solar Water Heating

Solar Water Heating Present?	Yes	Aperture area of solar collector [m ²]	5.280
Type, manufacturer, model	,	Collector heat loss coefficient, a1 [W/m ² >K]	2.368
Zero loss collector efficiency, n0	0.750	Overshading factor	1
Annual Solar Radiation [kWh/m ²] (Refer to Appendix H in DEAP)	1021	Combined Cylinder	Yes
Dedicated storage volume [Litres]	150		
Solar fraction [%]	58.655		

Heating System - Hot Water System

Distribution Losses	388.31	Combi boiler present?	No
Supplementary electric water heating	No	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	Insulation type	None
Is hot water storage indoors or in group heating system?	Yes		
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	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 [%]	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	A1	Energy Value kWh/m ² /yr	23.79
CO ₂ emissions [kg/m ² /yr]	6.49		
EPC	0.149	EPC Pass/Fail	Pass
CPC	0.196	CPC Pass/Fail	Pass

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	0.12	Pass	Roofs	0.12	Pass
Pitched roof insulated on slope	0	Pass	Walls	0.15	Pass
Flat Roof	0	Pass	Floors	0.162	Pass
Floors with no underfloor heat	0.16	Pass	External doors / windows / rooflights	1.60	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		Pass
Walls	0.15	Pass			
Percentage of opening areas [%]	18.12				
Average U value of openings	1.38	Pass			
Permeability test carried out and meets guidelines in TGD L				0.1	Pass

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

	Source	Renewables Primary Energy	Total Primary Energy	RER
+ Delivered energy	PV/Wind	2956.16	2956.16	
+ Delivered energy	Other	0.00	0.00	
+ Delivered energy	Solar	1518.42	1518.42	
+ 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	-1463.98	
+ Delivered energy	Thermal	0.00	4387.22	
SUBTOTAL		4474.58	7397.83	0.60 - Pass
Energy not used in Regulated Loads	PV/Wind/CHP	0.00	-1463.98	
TOTAL		4474.58	8861.80	0.50

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