

## Part L Specification

**BER IS NOT PUBLISHED**

### Property Details

Dwelling Type	Top-floor apartment	Type of BER rating	New Dwelling - Provisional
Address line 1	23ME007 #18 Durrow	Year of Construction	2023
Address line 2		Date of Assessment	20/09/2023
Address line 3		Date of Plans	
County	Co. Laois	Planning Reference	
Eircode		Building Regulations	2019 TGD L
BER Number		MPRN No.	0
Purpose of Rating	Social housing letting	Is MPRN shared with another dwelling?	N/A
Assessor Name	Stephen Howlin	Assessor Number	107165
Comment		BER number assigned to shared dwelling	N/A

### Dimension Details

	Area [m <sup>2</sup> ]	Height [m]	Volume [m <sup>3</sup> ]	
Ground Floor	49.42	2.70	133.43	
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	49.42		133.43	
Living Area [m <sup>2</sup> ]	27.49			Living area percentage [%] 55.63
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?	Yes	Number of sides sheltered	2
Ventilation method	Whole-house extract ventilation	Mechanical Ventilation Manufacturer	N/A
Specific fan power [W/(L/s)]	0.330	Mechanical Ventilation Model Name	N/A
Heat exchanger efficiency [%]	N/A	How many wetrooms (incl. kitchen)?	N/A

### Building Elements - Floor Details

Type	Description	Underfloor heating	U-Value [W/m <sup>2</sup> K]	Area [m <sup>2</sup> ]
Non-Heat Loss Floor	Ground Floor	N/A	0	49.42

### Building Elements - Roof Details

Type	Description	U-Value [W/m <sup>2</sup> K]	Area [m <sup>2</sup> ]
Pitched Roof - Insulated on Ceiling		0.16	49.42

### Building Elements - Wall Details

Type	Description	U-Value [W/m <sup>2</sup> K]	Area [m <sup>2</sup> ]
Unknown	External Wall	0.18	58.08

### Building Elements - Door Details

Description	Number of Doors	U-Value [W/m <sup>2</sup> K]	Area [m <sup>2</sup> ]
	1	1.4	2.360

DRAFT

## Building Elements - Window Details

Glazing type	User defined u-value	U-Value [W/m <sup>2</sup> K]	Area [m <sup>2</sup> ]
Triple-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.400	2.420
Triple-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.400	4.380
Triple-glazed, argon filled (low-E, en = 0.05, soft coat)	Yes	1.400	1.560

DRAFT

### Other Details

Thermal bridging factor [W/m <sup>2</sup> k]	0.1500	Thermal mass category of dwelling	Medium-high
--	--------	-----------------------------------	-------------

### Heating System - Solar Water Heating

Solar Water Heating Present?	No	Aperture area of solar collector [m <sup>2</sup> ]	N/A
Type, manufacturer, model	N/A	Collector heat loss coefficient, a1 [W/m <sup>2</sup> >K]	N/A
Zero loss collector efficiency, n0	N/A	Overshading factor	N/A
Annual Solar Radiation [kWh/m <sup>2</sup> ] (Refer to Appendix H in DEAP)	N/A	Combined Cylinder	N/A
Dedicated storage volume [Litres]	N/A		
Solar fraction [%]	0.000		

### Heating System - Hot Water System

Distribution Losses	290.86	Combi boiler present?	No
Supplementary electric water heating	N/A	Water Storage Volume [L]	200
Hot water storage manufacturer and model name	Mitsubishi	Declared loss factor [kWh/d]	1.91
Temperature factor unadjusted	0.89	Temperature Factor Multiplier	0.89
Primary Circuit loss type	Boiler / heat pump with uninsulated primary pipework and with cylinder thermostat	Insulation type	N/A
Is hot water storage indoors or in group heating system?	Yes		
Insulation thickness [mm]	N/A		

### Heating System - Dist. system losses and gains

Temperature adjustment [°C]	0	Control Category	2	Responsiveness category	1
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 [%]	522.61	Space heating efficiency adjustment factor	1.0000	Main space heating fuel	Electricity
Main water heating system efficiency [%]	299.65	Water heating efficiency adjustment factor	1.0000	Main water heating fuel	Electricity
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	A3	Energy Value kWh/m <sup>2</sup> /yr	54.59
CO <sub>2</sub> emissions [kg/m <sup>2</sup> /yr]	6.99		
EPC	0.255	EPC Pass/Fail	Pass
CPC	0.168	CPC Pass/Fail	Pass

### Part L Conformance - Fabric

Conformity with Maximum avg U-value requirements	U-value [W/m <sup>2</sup> K]	Pass/Fail	Conformity with Maximum U-value requirements	U-Value [W/m <sup>2</sup> K]	Pass/Fail
Pitched roof insulated on ceiling	0.16	Pass	Roofs	0.16	Pass
Pitched roof insulated on slope	0	Pass	Walls	0.18	Pass
Flat Roof	0	Pass	Floors	0	Pass
Floors with no underfloor heat	0.00	Pass	External doors / windows / rooflights	1.40	Pass
Floors with underfloor heat	0.00	Pass			
Walls	0.18	Pass			
Percentage of opening areas [%]	21.69				
Average U value of openings	1.40	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	3390.51	3390.51	
+ Saved energy	CHP	0.00	0.00	
+ District heating	District Heating	0.00	0.00	
+ Delivered energy	Grid	0.00	2697.88	
+ Delivered energy	Thermal	0.00	0.00	
<b>SUBTOTAL</b>		<b>3390.51</b>	<b>6088.39</b>	<b>0.56 - Pass</b>
Energy not used in Regulated Loads	PV/Wind/CHP	0.00	0.00	
<b>TOTAL</b>		<b>3390.51</b>	<b>6088.39</b>	<b>0.56</b>

**DRAFT**

## Energy Requirements: Individual Heating Systems

	Fuel Type	Electricity Fuel Factors Date	Primary energy conversion factor	CO <sub>2</sub> emission factor
<b>Main space heating system</b>	Electricity	Current	1.75	0.224
<b>Secondary space heating system</b>	None	Current	0.00	0.000
<b>Main water heating system</b>	Electricity	Current	1.75	0.224
<b>Cooling System</b>	None	Current	0.00	0.000
<b>Pumps, fans</b>	Electricity	Current	1.75	0.224
<b>Energy for lighting</b>	Electricity	Current	1.75	0.224

**DRAFT**