

Summary for Input Data



Property Reference	5832 Plot 06	Issued on Date	19/04/2023
Assessment Reference	As Designed	Prop Type Ref	
Property			

SAP Rating	80 C	DER	4.32	TER	8.35
Environmental	96 A	% DER < TER			48.26
CO ₂ Emissions (t/year)	0.5	DFEE	47.25	TFFEE	47.73
Compliance Check	See BREL	% DFEE < TFFEE			0.99
% DPER < TPER	1.40	DPER	45.09	TPER	45.73

Assessor Details	Mr. Mark Roberts	Assessor ID	P471-0001
Client			

SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

Orientation	Southeast		
Property Tenure	ND		
Transaction Type	6		
Terrain Type	Suburban		
1.0 Property Type	Bungalow, Detached		
Which Floor	0		
2.0 Number of Storeys	1		
3.0 Date Built	2023		
4.0 Sheltered Sides	2		
5.0 Sunlight/Shade	Average or unknown		
6.0 Thermal Mass Parameter	Precise calculation		
Thermal Mass	N/A	kJ/m ² K	
7.0 Electricity Tariff	Standard		
Smart electricity meter fitted	Yes		
Smart gas meter fitted	Yes		

7.0 Measurements

	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Basement:	0.00 m	0.00 m ²	0.00 m
Ground floor:	58.60 m	124.10 m ²	2.45 m
1st Storey:	0.00 m	0.00 m ²	0.00 m
2nd Storey:	0.00 m	0.00 m ²	0.00 m
3rd Storey:	0.00 m	0.00 m ²	0.00 m
4th Storey:	0.00 m	0.00 m ²	0.00 m
5th Storey:	0.00 m	0.00 m ²	0.00 m
6th Storey:	0.00 m	0.00 m ²	0.00 m
7th Storey:	0.00 m	0.00 m ²	0.00 m

8.0 Living Area	22.50	m ²
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9.0 External Walls

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area (m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	146.00	109.93	0.00	None	36.07	Enter Gross Area

9.2 Internal Walls

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Internal Wall 1	Plasterboard on timber frame	9.00	211.44

10.0 External Roofs

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area (m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Flat Ceiling	External Plane	Plasterboard, insulated at ceiling level	0.11	9.00	97.50	0.00	None	0.00	Enter Gross Area	0.00
Slope	External Slope	Plasterboard, insulated slope	0.15	9.00	26.60	0.00	None	0.00	Enter Gross Area	0.00

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
Heatloss Floor 1	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	124.10

Summary for Input Data



12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	Manufacturer	Window	Double Low-E Soft 0.05		Air Filled	0.63	Wood	0.70	1.20
Doors	Manufacturer	Solid Door			Air Filled	0.00	Wood	0.70	1.20
glazed door	Manufacturer	Half Glazed Door	Double Low-E Soft 0.05		Air Filled	0.63	Wood	0.70	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
SW	Windows	External Wall 1	South East	7.09	0
SW	Doors	External Wall 1	South East	2.12	0
SE	Windows	External Wall 1	North East	2.62	0
SE	glazed door	External Wall 1	North East	1.91	0
NE	Windows	External Wall 1	North West	21.61	0
NW	Windows	External Wall 1	South West	0.72	0

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E2 Other lintels (including other steel lintels)	Independently assessed	18.01	0.17	0.17	Yes
E3 Sill	Independently assessed	16.09	0.03	0.03	Yes
E4 Jamb	Independently assessed	44.43	0.04	0.04	Yes
E5 Ground floor (normal)	Independently assessed	58.60	0.14	0.14	Yes
E10 Eaves (insulation at ceiling level)	Independently assessed	32.10	0.07	0.07	No
E11 Eaves (insulation at rafter level)	Independently assessed	9.40	0.05	0.05	No
E12 Gable (insulation at ceiling level)	Independently assessed	13.88	0.07	0.07	No
E13 Gable (insulation at rafter level)	Independently assessed	7.60	0.06	0.06	No
E16 Corner (normal)	Independently assessed	18.90	0.06	0.06	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	10.50	-0.01	-0.01	No
R4 Ridge (vaulted ceiling)	Table K1 - Default	4.70	0.12	0.12	No

Y-value W/m²K

18.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Property Tested?

Test Method

As Built AP₅₀ m³/(h.m²) @ 50 Pa

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

Approved Installation

Mechanical Ventilation data Type

Type

MV Reference Number

Duct Type

MVHR Efficiency

Wet Rooms

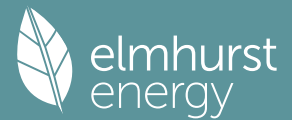
SFP from Installer Commissioning Certificate

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.15	In Room Fan	0
	Kitchen	
0.11	In Room Fan Other	5
	Wet Room	
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other	0
	Wet Room	
0.11	Through Wall Fan	0
	Kitchen	
0.09	Through Wall Fan	0
	Other Wet Room	

20.0 Fans, Open Fireplaces, Flues

Summary for Input Data



21.0 Fixed Cooling System

No

22.0 Lighting

No Fixed Lighting

No

Name	Efficacy	Power	Capacity	Count
Lighting 1	90.00	7	630	20

24.0 Main Heating 1

Database

Percentage of Heat

100.00

%

Database Ref. No.

105745

Fuel Type

Electricity

SAP Code

0

In Winter

0.00

In Summer

0.00

Model Name

WH-MDC09J3E5

Manufacturer

Panasonic HVAC UK Ltd

System Type

Heat Pump

Controls SAP Code

2207

Delayed Start Stat

No

HETAS approved System

No

Oil Pump Inside

No

FI Case

0.00

Flue Type

None or Unknown

Smoke Control Area

No

Fan Assisted Flue

No

Is MHS Pumped

Pump in heated space

Heating Pump Age

2013 or later

Heat Emitter

Underfloor

Underfloor Heating

Yes - Pipes in thin screed

Flow Temperature

Enter value

Flow Temperature Value

45.00

Boiler Interlock

No

25.0 Main Heating 2

None

26.0 Heat Networks

None

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
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Heat source 1	None								
Heat source 2	None								
Heat source 3	None								
Heat source 4	None								
Heat source 5	None								

27.0 Secondary Heating

Secondary Heating

SAP table

SAP Code

631

SHS efficiency

32.00

%

HETAS Approved System

Yes

Smoke Control Area

No

28.0 Water Heating

Water Heating

Main Heating 1

SAP Code

901

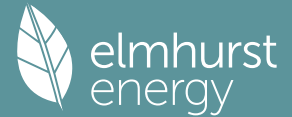
Flue Gas Heat Recovery System

No

Waste Water Heat Recovery Instantaneous System 1

No

Summary for Input Data



Waste Water Heat Recovery Instantaneous System 2	No
Waste Water Heat Recovery Storage System	No
Solar Panel	No
Water use <= 125 litres/person/day	Yes
Summer Immersion	No
Cold Water Source	From mains
Bath Count	1
Supplementary Immersion	No
Immersion Only Heating Hot Water	Yes

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Showers	Vented hot water system	7.00		No	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Hot Water Cylinder	Hot Water Cylinder
Cylinder Stat	Yes
Cylinder In Heated Space	Yes
Independent Time Control	Yes
Insulation Type	Measured Loss
Cylinder Volume	200.00 L
Loss	1.20 kWh/day
Pipes insulation	Fully insulated primary pipework
In Airing Cupboard	No

31.0 Thermal Store

None

34.0 Small-scale Hydro

None	
Electricity Generated	0.00
Apportioned	0.00 kWh/Year
Connected to dwelling's electricity meter	Yes
Electricity Generation	Annual
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

None