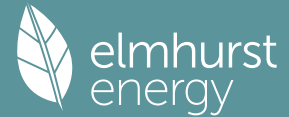


Summary for Input Data



Property Reference	5832 Plot 14	Issued on Date	19/04/2023
Assessment Reference	As Designed	Prop Type Ref	
Property			

SAP Rating	81 B	DER	4.01	TER	9.20
Environmental	96 A	% DER < TER			56.41
CO ₂ Emissions (t/year)	0.48	DFEE	39.20	TREE	39.40
Compliance Check	See BREL	% DFEE < TREF			0.50
% DPER < TPER	12.82	DPER	41.98	TPER	48.15

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

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

Orientation	Northeast	
Property Tenure	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
Which Floor	0	
2.0 Number of Storeys	2	
3.0 Date Built	2023	
4.0 Sheltered Sides	1	
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	

	Heat Loss Perimeter	Internal Floor Area	Unheated Space Floor Area	Average Storey Height
Basement:	0.00 m	0.00 m ²		0.00 m
Ground floor:	32.33 m	56.55 m ²	17.69 m ²	2.35 m
1st Storey:	36.15 m	71.04 m ²		2.52 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	22.00	m ²
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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
Plinth	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	10.95	10.95	0.00	None	0.00	Enter Gross Area
Brick	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	68.93	52.37	0.00	None	16.56	Enter Gross Area
Boarded	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	67.25	61.09	0.00	None	6.16	Enter Gross Area
Dormer	Timber Frame	Timber framed wall (one layer of plasterboard)	0.18	9.00	6.82	4.20	0.00	None	2.62	Enter Gross Area
Sheltered	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	17.15	17.15	0.00	None	0.00	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
FF	Plasterboard on timber frame	9.00	133.11
GF	Plasterboard on timber frame	9.00	76.56

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 Area
Flat Ceiling	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	61.73	0.00	None	0.00	Enter Gross Area	0.00

Summary for Input Data



Sloped Roof	External Slope	Plasterboard, insulated slope	0.15	9.00	6.14	0.00	None	0.00	Enter Gross Area	0.00
Flat Roof	External Flat Roof	Plasterboard, insulated flat roof	0.15	9.00	7.65	0.00	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings

Description	Storey	Construction	Area (m ²)
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	56.55

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)
Beam & Block Exposed	Ground Floor - Solid Timber	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	56.55
	Exposed Floor - Timber	+1	Timber exposed floor, insulation between joists	0.17	None	0.00	20.00	17.69

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	56.55

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
Window	Manufacturer	Window	Double Low-E Soft 0.05		Air Filled	0.63	Wood	0.70	1.20
Door	Manufacturer	Solid Door			Air Filled	0.00	Wood	0.70	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m ²)	Pitch
NE Win Brick	Window	Brick	North East	1.55	0
NE Door Brick	Door	Brick	North East	2.15	0
NE Win Boarded	Window	Boarded	North East	3.28	0
NE Win Dormer	Window	Dormer	North East	1.31	0
NW Win Brick	Window	Brick	North West	1.31	0
SW Win Brick	Window	Brick	South West	8.19	0
SW Win Boarded	Window	Boarded	South West	2.87	0
SW Win Dormer	Window	Dormer	South West	1.31	0
SE Win Brick	Window	Brick	South East	3.37	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	16.92	0.17	0.17 TRADA	Yes
E3 Sill	Independently assessed	15.90	0.03	0.03 TRADA	Yes
E4 Jamb	Independently assessed	36.02	0.04	0.04 TRADA	Yes
E5 Ground floor (normal)	Independently assessed	32.33	0.14	0.14 TRADA	Yes
E6 Intermediate floor within a dwelling	Independently assessed	36.15	0.12	0.12 TRADA	Yes
E16 Corner (normal)	Independently assessed	25.79	0.05	0.05 TFG	No
E12 Gable (insulation at ceiling level)	Independently assessed	15.36	0.07	0.07 TRADA	No
E10 Eaves (insulation at ceiling level)	Independently assessed	15.45	0.07	0.07 TRADA	No
E11 Eaves (insulation at rafter level)	Independently assessed	6.43	0.05	0.05 TRADA	No
E14 Flat roof	Table K1 - Default	13.56	0.16	0.16	No
E13 Gable (insulation at rafter level)	Independently assessed	5.13	0.06	0.06 TRADA	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	7.95	-0.01	-0.01 TRADA	No

Y-value W/m²K

18.0 Pressure Testing

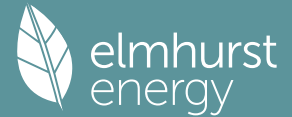
Designed AP₅₀ m³/(h.m²) @ 50 Pa
 Property Tested?
 Test Method
 As Built AP₅₀ m³/(h.m²) @ 50 Pa

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present
 Approved Installation
 Mechanical Ventilation data Type
 Type
 MV Reference Number

Summary for Input Data



Duct Type	Rigid
MVHR Efficiency	0.00
Wet Rooms	4
SFP from Installer Commissioning Certificate	No

19.1 Mechanical extract ventilation - Decentralised

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

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Lighting 1	92.86	7	650	36

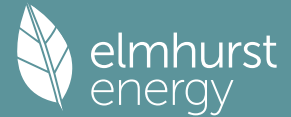
24.0 Main Heating 1

Database	<input type="text" value="Database"/>
Percentage of Heat	<input type="text" value="100.00"/> %
Database Ref. No.	<input type="text" value="105744"/>
Fuel Type	<input type="text" value="Electricity"/>
SAP Code	<input type="text" value="0"/>
In Winter	<input type="text" value="0.00"/>
In Summer	<input type="text" value="0.00"/>
Model Name	<input type="text" value="WH-MDC09J3E5"/>
Manufacturer	<input type="text" value="Panasonic HVAC UK Ltd"/>
System Type	<input type="text" value="Heat Pump"/>
Controls SAP Code	<input type="text" value="2210"/>
Delayed Start Stat	<input type="text" value="No"/>
Burner Control	<input type="text" value="Modulating"/>
HETAS approved System	<input type="text" value="No"/>
Oil Pump Inside	<input type="text" value="No"/>
FI Case	<input type="text" value="0.00"/>
Flue Type	<input type="text" value="None or Unknown"/>
Fan Assisted Flue	<input type="text" value="No"/>
Is MHS Pumped	<input type="text" value="Pump in heated space"/>
Heating Pump Age	<input type="text" value="2013 or later"/>
Heat Emitter	<input type="text" value="Radiators and Underfloor"/>
Underfloor Heating	<input type="text" value="Yes - Pipes in thin screed"/>
Flow Temperature	<input type="text" value="Enter value"/>
Flow Temperature Value	<input type="text" value="55.00"/>
Boiler Interlock	<input type="text" value="No"/>
Combi boiler type	<input type="text" value="No Combi"/>
Combi keep hot type	<input type="text" value="None"/>

25.0 Main Heating 2

26.0 Heat Networks

Summary for Input Data



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

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
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
Ens 1	Vented hot water system	7.00		No	
Bath	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	240.00			L	
Loss	1.70			kWh/day	
Pipes insulation	Fully insulated primary pipework				
In Airing Cupboard	No				

31.0 Thermal Store

None

34.0 Small-scale Hydro

None	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