

Summary for Input Data



Property Reference	Unit 4	Issued on Date	21/06/2024
Assessment Reference	Type A	Prop Type Ref	1
Property			

SAP Rating	92 A	DER	0.58	TER	10.69
Environmental	100 A	% DER < TER			94.57
CO ₂ Emissions (t/year)	0.06	DFEE	35.19	TFEE	37.16
Compliance Check	See BREL	% DFEE < TFEE			5.28
% DPER < TPER	61.59	DPER	21.43	TPER	55.80

Assessor Details	Mr. Steven Johnson	Assessor ID	Z708-0001
Client			

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

Orientation	Northeast	
Property Tenture	1	
Transaction Type	6	
Terrain Type	Urban	
1.0 Property Type	House, Semi-Detached	
Which Floor	0	
2.0 Number of Storeys	2	
3.0 Date Built	2023	
3.0 Property Age Band	L	
4.0 Sheltered Sides	1	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	N/A	kJ/m²K
7.0 Electricity Tariff	Standard	
Smart electricity meter fitted	No	
Smart gas meter fitted	No	

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:	19.80 m	48.03 m ²	2.70 m
1st Storey:	19.80 m	48.03 m ²	2.70 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	19.30	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)	0.19	9.00	106.92	91.39	0.00	None	15.53	Calculate Wall Area

9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
	Party Wall 1	Filled Cavity with Edge Sealing	Double plasterboard on both sides, twin timber f rame with/without sheathing board	0.00	20.00	45.90	0.00	None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	Internal Wall 1	Dense block, plasterboard on dabs	75.00	40.00

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
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Summary for Input Data



External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	48.03	48.03	None	0.00	Calculate Wall Area	0.00
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10.2 Internal Ceilings

Description	Storey	Construction	Area (m²)
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	48.03

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Heatloss Floor 1	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	48.03

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Door	Manufacturer	Solid Door			Air Filled	0.00	Wood	0.70	1.00
Window	Manufacturer	Window	Triple glazed		Air Filled	0.50	Wood	0.70	0.80

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front Door	Door	External Wall 1	North East	2.10	0
Window	Window	External Wall 1	North East	6.10	0
Window	Window	External Wall 1	South West	7.33	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)		10.42	0.00	0.00	No
E3 Sill		7.63	0.00	0.00	No
E4 Jamb		29.70	0.00	0.00	No
E5 Ground floor (normal)		19.80	0.00	0.00	No
E6 Intermediate floor within a dwelling		19.80	0.00	0.00	No
E10 Eaves (insulation at ceiling level)		11.30	0.00	0.00	No
E12 Gable (insulation at ceiling level)		8.50	0.00	0.00	No
E16 Corner (normal)		10.80	0.00	0.00	No
E18 Party wall between dwellings		10.80	0.00	0.00	No
P1 Party wall - Ground floor		8.50	0.00	0.00	No
P2 Party wall - Intermediate floor within a dwelling		8.50	0.00	0.00	No
P4 Party wall - Roof (insulation at ceiling level)		8.50	0.00	0.00	No

Y-value W/m²K

Description

18.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Property Tested?

Test Method

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

Approved Installation

Mechanical Ventilation data Type

Type

MV Reference Number

Manufacturer SFP

Duct Type

MVHR Efficiency

Wet Rooms

SFP from Installer Commissioning Certificate

MVHR System Location

Duct Installation Specification

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

Summary for Input Data

22.0 Lighting

No Fixed Lighting

No				
Name	Efficacy	Power	Capacity	Count
Lighting 1	75.00	4	300	10

24.0 Main Heating 1

Database		
Percentage of Heat	100.00	%
Database Ref. No.	106465	
Fuel Type	Electricity	
SAP Code	0	
In Winter	232.50	
In Summer	170.70	
Model Name	EDLA04EV3	
Manufacturer	Daikin Europe NV	
System Type	Heat Pump	
Controls SAP Code	2210	
Delayed Start Stat	No	
Burner Control	On/Off	
HETAS approved System	No	
Oil Pump Inside	No	
FI Case	0.00	
Flue Type	None or Unknown	
Fan Assisted Flue	No	
Is MHS Pumped	Pump in unheated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Enter value	
Flow Temperature Value	55.00	
Boiler Interlock	No	
Combi boiler type	No Combi	
Combi keep hot type	None	

25.0 Main Heating 2

None

26.0 Heat Networks

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	No

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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Summary for Input Data

Shower Combi boiler or unvented hot water system 11.00 9.30 Yes Instantaneous System 1

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Hot Water Cylinder		
Cylinder Stat	Yes	
Cylinder In Heated Space	Yes	
Independent Time Control	Yes	
Insulation Type	Measured Loss	
Cylinder Volume	179.00	L
Loss	1.39	kWh/day
Pipes insulation	Fully insulated primary pipework	
In Airing Cupboard	No	

31.0 Thermal Store

None

32.0 Photovoltaic Unit

One Dwelling	
Export Capable Meter?	Yes
Connected To Dwelling	Yes
Diverter	No
Battery Capacity [kWh]	0.00

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
3.90	South West	30°	None Or Little	No	No	1.00		

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