

Summary for Input Data

Property Reference	DA-61-02 rev A - First	Issued on Date	25/02/2025
Assessment Reference	DA-61-02 SAP Design	Prop Type Ref	Flat - Conversion
Property	First floor Flat, Old Farm Close, Haywards Heath		

SAP Rating	74 C	DER	33.02	TER	
Environmental	74 C	% DER < TER			N/A
CO ₂ Emissions (t/year)	1.97	DFEE	94.04	TFEE	
Compliance Check	See BREL	% DFEE < TFEE			
% DPER < TPER		DPER	180.94	TPER	

Assessor Details	Mr. Colin Marshall	Assessor ID	AV43-0001
Client			

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	West
Property Tenure	1
Transaction Type	5
Terrain Type	Suburban
1.0 Property Type	Flat, Detached
Position of Flat	Top-floor flat
Which Floor	1
2.0 Number of Storeys	2
3.0 Date Built	2025
3.0 Property Age Band	L
4.0 Sheltered Sides	0
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Enter TMP value
Thermal Mass	250.00

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
Ground floor:	5.50 m	4.90 m ²	2.41 m
1st Storey:	32.80 m	61.60 m ²	2.41 m
2nd Storey:	29.40 m	53.00 m ²	2.25 m

8.0 Living Area	32.00	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
	cavity wall	Cavity Wall	Cavity wall : dense plaster, dense block, filled cavity, any outside structure	0.36	190.00	94.40	85.13	0.00	None	9.27	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	Internal Wall 1	Dense block, dense plaster	100.00	38.00
	Internal Wall 2	Plasterboard on timber frame	9.00	14.00

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
	External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.16	9.00	61.60	61.60	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	Slab on ground, screed over insulation	0.30	None	0.00	110.00	4.90

11.1 Party Floors

Summary for Input Data



Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Party Floor 1	+1	Timber I-joists, carpeted	20.00	49.00

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
new d	Manufacturer	Half Glazed Door	Double Low-E Soft 0.05			0.63		0.80	1.40
new W	Manufacturer	Window	Double Low-E Hard 0.15			0.72		0.70	1.40

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
W	new W	cavity wall	North	2.56	0
W	new W	cavity wall	South	0.57	0
W	new W	cavity wall	West	2.75	0
D	new d	cavity wall	West	2.15	0
W	new W	cavity wall	East	1.24	0

14.0 Conservatory

None

15.0 Draught Proofing

100

 %

16.0 Draught Lobby

No

17.0 Thermal Bridging

Default

Y-value

0.20

 W/m²K

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

No

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	0
Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	2
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

No

22.0 Pressure Testing

No

Designed AP₅₀

0.10

 m³/(h.m²) @ 50 Pa

Property Tested?

Yes

Test Method

Blower Door

22.0 Lighting

No Fixed Lighting

No

Name	Efficacy	Power	Capacity	Count
Lighting 1	75.00	12.00	900.00	7

24.0 Main Heating 1

Database

Percentage of Heat

100.00

 %

Database Ref. No.

9716

Fuel Type

Mains gas

SAP Code

0

In Winter

83.10

In Summer

79.50

Model Name

Greenstar R

Manufacturer

Worcester Heat Systems

System Type

Combi boiler

Summary for Input Data

Controls SAP Code	2106
Delayed Start Stat	No
Burner Control	Modulating
HETAS approved System	No
Flue Type	Balanced
Fan Assisted Flue	Yes
Is MHS Pumped	Pump in heated space
Heating Pump Age	2013 or later
Heat Emitter	Radiators
Flow Temperature	Unknown
Boiler Interlock	No
Combi boiler type	Standard Combi

25.0 Main Heating 2

26.0 Heat Networks

	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									

27.0 Secondary Heating

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	No
Summer Immersion	No
Cold Water Source	From header tank
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
SHOWER	Vented hot water system + pump	10.00		No	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

	None	
Cylinder Stat	No	
Cylinder In Heated Space	No	
Independent Time Control	No	
Insulation Type	None	
Cylinder Volume	210.00	L
Pipes insulation	Uninsulated primary pipework	
In Airing Cupboard	No	

Summary for Input Data



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