

# Summary for Input Data



Property Reference	Plot 1	Issued on Date	05/02/2024
Assessment Reference	Proposed ASHP	Prop Type Ref	
Property	34, Acacia Avenue, Ruislip, HA4 8RG		

SAP Rating	79 C	DER	4.44	TER	10.64
Environmental	96 A	% DER < TER			58.27
CO <sub>2</sub> Emissions (t/year)	0.51	DFEE	39.87	TFEE	43.62
Compliance Check	See BREL	% DFEE < TFEE			8.59
% DPER < TPER	16.63	DPER	46.39	TPER	55.65

Assessor Details	Mr. Lee Robbins	Assessor ID	U322-0001
Client			

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

Orientation	Southeast	
Property Tenure	ND	
Transaction Type	5	
Terrain Type	Suburban	
1.0 Property Type	House, 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/m <sup>2</sup> 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 <sup>2</sup>	0.00 m
Ground floor:	33.38 m	64.28 m <sup>2</sup>	2.50 m
1st Storey:	33.38 m	64.28 m <sup>2</sup>	2.80 m
2nd Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m
3rd Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m
4th Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m
5th Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m
6th Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m
7th Storey:	0.00 m	0.00 m <sup>2</sup>	0.00 m

8.0 Living Area	15.83	m <sup>2</sup>
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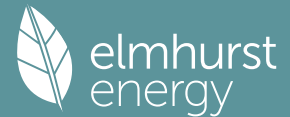
9.0 External Walls	Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Gross Area(m <sup>2</sup> )	Nett Area (m <sup>2</sup> )	Shelter Res	Shelter	Openings	Area Calculation Type
	Wall 1 - External	Cavity Wall	Cavity wall; dense plaster, lightweight aggregate block, filled cavity, any outside structure	0.17	140.00	176.91	150.48	0.00	None	26.43	Enter Gross Area

9.2 Internal Walls	Description	Construction	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
	Internal Wall 1	Plasterboard on timber frame	9.00	122.12

10.0 External Roofs	Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Gross Area(m <sup>2</sup> )	Nett Area (m <sup>2</sup> )	Shelter Code	Shelter Factor	Calculation Type	Openings
	Roof 1 - Plane Roof	External Plane Roof	Plasterboard, insulated at ceiling level	0.11	9.00	64.28	64.28	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings	Description	Storey	Construction	Area (m <sup>2</sup> )
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Internal Ceiling 1      Lowest occupied      Plasterboard ceiling, carpeted chipboard floor      64.28

## 11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Floor 1 - Beam & Block	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.11	None	0.00	75.00	64.28

## 11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	64.28

## 12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Doors	Manufacturer	Solid Door			Air Filled	0.00	Wood	0.70	1.20
Windows	BFRC, BSI or CERTASS data	Window	Double Low-E Soft 0.05		Air Filled	0.55	Wood	1.00	1.20

## 13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Opening	Windows	Wall 1 - External	North East	0.61	0
Opening	Windows	Wall 1 - External	South West	0.61	0
Opening	Windows	Wall 1 - External	North West	16.41	0
Opening	Windows	Wall 1 - External	South East	8.80	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	16.72	0.38	0.38	No
E3 Sill	Independently assessed	11.08	0.03	0.03	No
E4 Jamb	Independently assessed	27.20	0.02	0.02	No
E5 Ground floor (normal)	Independently assessed	33.38	0.11	0.11	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	33.38	0.00	0.00	No
E10 Eaves (insulation at ceiling level)	Independently assessed	30.18	0.07	0.07	No
E12 Gable (insulation at ceiling level)	Independently assessed	3.10	0.10	0.10	No
E16 Corner (normal)	Independently assessed	21.20	0.04	0.04	No

Y-value  W/m²K

## 18.0 Pressure Testing

Designed AP<sub>50</sub>   m³/(h.m²) @ 50 Pa

Property Tested?

Test Method

## 19.0 Mechanical Ventilation

Mechanical Ventilation System Present

## 20.0 Fans, Open Fireplaces, Flues

## 21.0 Fixed Cooling System

## 22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
LED	80.00	5	400	12

## 24.0 Main Heating 1

Percentage of Heat  %

Database Ref. No.

Fuel Type

SAP Code

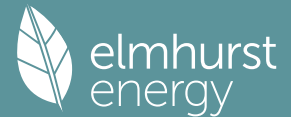
In Winter

In Summer

Model Name

Manufacturer

# Summary for Input Data



System Type	Heat Pump
Controls SAP Code	2207
Delayed Start Stat	No
Burner Control	Modulating
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 heated space
Heating Pump Age	2013 or later
Heat Emitter	Radiators
Flow Temperature	Enter value
Flow Temperature Value	55.00
Boiler Interlock	Yes
Combi boiler type	Standard Combi
Combi keep hot type	None

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								

## 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
Shower	Combi boiler or unvented hot water system	11.00		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

# Summary for Input Data



Cylinder Volume	<input type="text" value="170.00"/>	L
Loss	<input type="text" value="1.60"/>	kWh/day
Pipes insulation	<input type="text" value="Fully insulated primary pipework"/>	
In Airing Cupboard	<input type="text" value="No"/>	

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**31.0 Thermal Store**

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**34.0 Small-scale Hydro**

Electricity Generated	<input type="text" value="0.00"/>	
Apportioned	<input type="text" value="0.00"/>	kWh/Year
Connected to dwelling's electricity meter	<input type="text" value="Yes"/>	
Electricity Generation	<input type="text" value="Annual"/>	

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

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**Recommendations**

Lower cost measures

None

Further measures to achieve even higher standards

None