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_2 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 Tenture	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/m²K
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 m²	0.00 m
Ground floor:	33.38 m	64.28 m²	2.50 m
1st Storey:	33.38 m	64.28 m²	2.80 m
2nd Storey:	0.00 m	0.00 m²	0.00 m
3rd Storey:	0.00 m	0.00 m²	0.00 m
4th Storey:	0.00 m	0.00 m²	0.00 m
5th Storey:	0.00 m	0.00 m²	0.00 m
6th Storey:	0.00 m	0.00 m²	0.00 m
7th Storey:	0.00 m	0.00 m²	0.00 m

8.0 Living Area	15.83	m²

9.0 External Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	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/m²K)	Area (m²)
Internal Wall 1	Plasterboard on timber frame	9.00	122.12

10.0 External Roofs

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	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 (m²)

Summary for Input Data

elmhurst energy

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	None	
15.0 Draught Proofing	100	%
16.0 Draught Lobby	No	

17.0 Thermal Bridging	Calculate Bridges	

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	0.05	W/m²K

18.0 Pressure Testing	Yes	
Designed AP_{50}	5.00	m³/(h.m²) @ 50 Pa
Property Tested?	Yes	
Test Method	Blower Door	

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	No

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System	No	

22.0 Lighting

No Fixed Lighting	No	

Name	Efficacy	Power	Capacity	Count
LED	80.00	5	400	12

24.0 Main Heating 1	Database	
Percentage of Heat	100.00	%
Database Ref. No.	104640	
Fuel Type	Electricity	
SAP Code	0	
In Winter	256.22	
In Summer	177.78	
Model Name	Ecodan 8.5 kW	
Manufacturer	Mitsubishi Electric Europe B.V.	

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 — 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
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
Cylinder Stat	Yes
Cylinder In Heated Space	Yes
Independent Time Control	Yes
Insulation Type	Measured Loss

Summary for Input Data

Cylinder Volume	170.00	L
Loss	1.60	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