Summary for Input Data

elmhurst energy

Property Reference	P23972(3)	**Issued on Date**	16/10/2023
Assessment Reference	P23972(3)	**Prop Type Ref**	
Property	Flat 3, The Western, 205 High Street, Rickmansworth, WD3 1BB		

SAP Rating	94 A	**DER**	1.69	**TER**	15.92
Environmental	99 A	**% DER < TER**			89.38
CO_2 Emissions (t/year)	0.06	**DFEE**	35.75	**TFEE**	39.93
Compliance Check	See BREL	**% DFEE < TFEE**			10.45
% DPER < TPER	74.21	**DPER**	21.81	**TPER**	84.56

Assessor Details	Mr. Malcolm Lisle	**Assessor ID**	P736-0001
Client	SC, Sasha Archibald		

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

Orientation	East
Property Tenture	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	Flat, Semi-Detached
Position of Flat	Top-floor flat
Which Floor	2
2.0 Number of Storeys	1
3.0 Date Built	2023
4.0 Sheltered Sides	1
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
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:	26.85 m	49.84 m²	2.40 m

8.0 Living Area 23.36 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
Cavity Wall	Cavity Wall	Cavity wall : plasterboard on dabs, AAC block, filled cavity, any outside structure	0.13	60.00	64.44	46.10	0.00	None	18.34	Enter Gross Area

9.1 Party Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter
Party Walls	Solid Wall	Dense plaster both sides, dense blocks, cavity or cavity fill	0.00	180.00	10.68		None

9.2 Internal Walls

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Walls	Plasterboard on timber frame	9.00	75.84

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
Flat Roof	External Flat Roof	Plasterboard, insulated flat roof	0.12	9.00	49.84	49.84	None	0.00	Enter Gross Area	0.00

11.1 Party Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Party Floor 1	Lowest occupied	Timber I-joists, carpeted	20.00	49.84

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12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows/Doors	Manufacturer	Window	Triple Low-E Soft 0.05			0.57		0.70	1.00
Semi-Glazed Doors	Manufacturer	Half Glazed Door	Triple Low-E Soft 0.05			0.57		0.70	1.00
Non-Vision Panels	Manufacturer	Solid Door							1.00

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Windows	Windows/Doors	Cavity Wall	North	2.10	
Kitchen	Windows/Doors	Cavity Wall	South	4.83	
Windows	Windows/Doors	Cavity Wall	South	0.40	
Panels	Non-Vision Panels	Cavity Wall	North	6.60	
Balcony	Windows/Doors	Cavity Wall	West	4.41	

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	9.80	0.06	0.06	No
E3 Sill	Independently assessed	5.40	0.04	0.04	No
E4 Jamb	Independently assessed	27.80	0.05	0.05	No
E7 Party floor between dwellings (in blocks of flats)	Independently assessed	26.85	0.00	0.00	No
E16 Corner (normal)	Independently assessed	4.80	0.04	0.04	No
E18 Party wall between dwellings	Independently assessed	4.80	0.06	0.06	No
E14 Flat roof	Table K1 - Default	26.85	0.16	0.16	No

Y-value	0.00	W/m²K
18.0 Pressure Testing	Yes	
Designed AP_{50}	1.00	m³/(h.m²) @ 50 Pa
Test Method	Blower Door	

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	Yes
Approved Installation	No
Mechanical Ventilation data Type	Database
Type	Balanced mechanical ventilation with heat recovery
MV Reference Number	500289
Manufacturer SFP	0.42
Duct Type	Rigid
MVHR Efficiency	91.00
Wet Rooms	1
SFP from Installer Commissioning Certificate	No
MVHR System Location	Inside heated envelope (installed exclusively)
Duct Installation Specification	Level 1

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System	No

22.0 Lighting

No Fixed Lighting	No

Name	Efficacy	Power	Capacity	Count
Lighting 1	91.67	12	1100	8

24.0 Main Heating 1	Database	
Percentage of Heat	100.00	%
Database Ref. No.	104570	
Fuel Type	Electricity	
In Winter	0.00	

Summary for Input Data

In Summer	0.00	
Model Name	Ecodan 5.0 kW	
Manufacturer	Mitsubishi Electric Europe B.V.	
System Type	Heat Pump	
Controls SAP Code	2207	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Underfloor	
Underfloor Heating	Yes - Pipes in thin screed	
Flow Temperature	Enter value	
Flow Temperature Value	35.00	
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	No	
Cold Water Source	From mains	
Bath Count	1	
Immersion Only Heating Hot Water	No	
28.3 Waste Water Heat Recovery System		
29.0 Hot Water Cylinder	Hot Water Cylinder	
Cylinder Stat	No	
Cylinder In Heated Space	No	
Independent Time Control	No	
Insulation Type	Measured Loss	
Cylinder Volume	150.00	L
Loss	1.86	kWh/day
Pipes insulation	Fully insulated primary pipework	
In Airing Cupboard	No	
31.0 Thermal Store	None	
32.0 Photovoltaic Unit	Multiple Dwellings – Connected	
Export Capable Meter?	Yes	
Connected To Dwelling	Yes	
Diverter	No	
Battery Capacity [kWh]	5.00	

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.40	Horizontal	Horizontal	Modest		No	0.80		

34.0 Small-scale Hydro	None

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

Summary for Input Data

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

	Typical Cost	Typical savings per year	Ratings after improvement	
			SAP rating	Environmental Impact
			0	0
			0	0
			0	0