

Summary for Input Data



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 Tenure	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 m ²	2.40 m

8.0 Living Area	23.36	m ²
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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 : 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

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Party Walls	Solid Wall	Dense plaster both sides, dense blocks, cavity or cavity fill	0.00	180.00	10.68		None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Internal Walls	Plasterboard on timber frame	9.00	75.84

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
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

Description	Storey Index	Construction	Kappa (kJ/m ² K)	Area (m ²)
Party Floor 1	Lowest occupied	Timber I-joists, carpeted	20.00	49.84

Summary for Input Data



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

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	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 W/m²K

18.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

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

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Lighting 1	91.67	12	1100	8

24.0 Main Heating 1

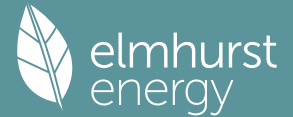
Percentage of Heat %

Database Ref. No.

Fuel Type

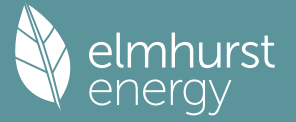
In Winter

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													
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													
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