Summary for Input Data

elmhurst energy

Plot Reference	Flat 1	**Issued on Date**	20/11/2026
Assessment Reference	Actual	**Plot Type Ref**	13-15 Station Road
Plot Address	Flat 1, 13-15 Station Road, Reading	**SAP Version**	10.2

SAP Rating	69 C	**DER**	12.22	**TER**	
Environmental	91 B	**% DER < TER**			N/A
CO_2 Emissions (t/year)	0.63	**DFEE**	60.61	**TFEE**	
Compliance Check	N/A	**% DFEE < TFEE**			
% DPER < TPER		**DPER**	135.00	**TPER**	

Assessor Details	Mr. Paul Harrison	**Assessor ID**	K598-0001
Client	Ian Sullivan Architecture Ltd, Ian Sullivan		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	East	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	Flat, Mid-Terrace	
Position of Flat	Mid-floor flat	
Which Floor	2	
2.0 Number of Storeys	1	
3.0 Date Built	2026	
4.0 Sheltered Sides	3	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	186.65	kJ/m²K
7.0 Electricity Tariff	7 Hour Off Peak	
Smart electricity meter fitted	No	
Smart gas meter fitted	No	

7.0 Measurements

	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
Ground floor:	23.99 m	58.09 m²	2.70 m

8.0 Living Area 24.97 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
Existing Cavity Walls	Cavity Wall	Cavity wall : plasterboard on dabs, AAC block, filled cavity, any outside structure	0.37	60.00	64.77	53.18	0.00	None	11.59	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	26.65		None

9.2 Internal Walls

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Light Partition Walls:	Plasterboard on timber frame	9.00	59.08

10.1 Party Ceilings

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Party Ceilings 1	Timber I-joists, carpeted	20.00	58.09

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Commercial Premise:	Exposed Floor - Timber	Lowest occupied	Timber exposed floor, insulation between joists	0.11	None	0.00	20.00	58.09

12.0 Opening Types

Summary for Input Data

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows:	Manufacturer	Window	Double Low-E Soft 0.05			0.63		0.70	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
W01-1	Windows:	Existing Cavity Walls	West	5.80	
W02-1	Windows:	Existing Cavity Walls	West	5.80	

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	Yes	
Designed AP_{50}	4.80	m³/(h.m²) @ 50 Pa
Property Tested?	Yes	
Test Method	Blower Door	

22.0 Lighting

No Fixed Lighting	No	

Name	Efficacy	Power	Capacity	Count
Low energy Lighting	100.00	5.00	500.00	8

24.0 Main Heating 1	SAP table	
Percentage of Heat	100.00	%
Fuel Type	Electricity	
SAP Code	409	
In Winter	100.00	
In Summer	100.00	
Controls SAP Code	2404	
Controls description	Controls for high heat retention storage heaters	
PCDF Controls	0	

Number Of Heaters	PCDF Index
3	230001 m

25.0 Main Heating 2	None	
26.0 Heat Networks	None	
27.0 Secondary Heating	SAP table	

Summary for Input Data

SAP Code	691	
Heating System Description	Electric Panel, convector or radiant heaters	
Fuel Type	Electricity	
SHS efficiency	100.00	%

28.0 Water Heating

Water Heating	Independent	
SAP Code	903	
Fuel Type	Electricity	
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	
Immersion Heater	Dual	
Cold Water Source	From mains	
Bath Count	0	

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower	Unknown			No	

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder	Hot Water Cylinder	
Cylinder In Heated Space	Yes	
Insulation Type	Measured Loss	
Cylinder Volume	150.00	L
Loss	1.88	kWh/day

34.0 Small-scale Hydro	None	

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

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
Solar water heating			0	0
Photovoltaic			0	0
Wind turbine			0	0