Summary for Input Data

Property Reference	P22691(1) Mount P	Issued on Date	13/06/2025
Assessment Reference	P22691(1)_As Built	Prop Type Ref	
Property	38, Mount Pleasant, Reading, RG1 2TD		

SAP Rating	88 B	DER	11.98	TER	14.06
Environmental	90 B	% DER < TER			14.79
CO_2 Emissions (t/year)	0.79	DFEE	43.97	TFEE	44.15
Compliance Check	See BREL	% DFEE < TFEE			0.41
% DPER < TPER	7.99	DPER	68.01	TPER	73.92

Assessor Details	Mr. Malcolm Lisle	Assessor ID	P736-0001
Client	JZ, Jay Zaman		

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

Orientation	South	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, End-Terrace	
2.0 Number of Storeys	3	
3.0 Date Built	2023	
4.0 Sheltered Sides	1	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	132.25	kJ/m²K
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:	15.80 m	29.56 m²	2.50 m
1st Storey:	15.80 m	31.08 m²	2.80 m
2nd Storey:	12.20 m	17.76 m²	2.90 m

8.0 Living Area 27.56 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
External Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.13	9.00	114.80	90.11	0.00	None	24.69	Enter Gross Area

9.1 Party Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter
Party Wall 1	Filled Cavity with Edge Sealing	Single plasterboard on both sides, dense cellular blocks, cavity	0.00	70.00	54.12		None

9.2 Internal Walls

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Walls - Timber	Plasterboard on timber frame	9.00	105.30

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
External Roof - Sloping	External Slope Roof	Plasterboard, insulated slope	0.18	9.00	23.18	19.12	None	0.00	Enter Gross Area	4.06
External Roof - Flat Roof	External Flat Roof	Plasterboard, insulated flat roof	0.15	9.00	13.32	13.32	None	0.00	Enter Gross Area	0.00

10.2 Internal Ceilings

Description	Storey	Construction	Area (m²)
Internal Ceiling - G Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	29.56
Internal Ceiling - 1st Floor	+1	Plasterboard ceiling, carpeted chipboard floor	17.76

Summary for Input Data

elmhurst energy

11.0 Heat Loss Floors

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Slab on ground, screed over insulation	0.13	None	0.00	110.00	29.56

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor - 1st Floor		Plasterboard ceiling, carpeted chipboard floor	9.00	29.56
Internal Floor - 2nd Floor		Plasterboard ceiling, carpeted chipboard floor	9.00	17.76

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	Double Low-E Soft 0.05			0.63		1.00	1.50
Rooflights	Manufacturer	Roof Window	Double Low-E Soft 0.05			0.63		0.70	1.70

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Windows	Windows/Doors	External Wall	North	3.16	
Glazed Doors	Windows/Doors	External Wall	East	4.32	
Windows	Windows/Doors	External Wall	South	6.50	
Glazed Doors	Windows/Doors	External Wall	North	4.32	
Glazed Doors	Windows/Doors	External Wall	South	6.39	
Rooflights	Rooflights	External Roof - Sloping	East	4.06	40

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
E1 Steel lintel with perforated steel base plate	Independently assessed	13.10	0.11	0.11	ROI Details	No
E3 Sill	Independently assessed	8.60	0.05	0.05		No
E4 Jamb	Independently assessed	47.20	0.06	0.06		No
E5 Ground floor (normal)	Independently assessed	15.80	0.02	0.02		No
E6 Intermediate floor within a dwelling	Independently assessed	28.00	0.13	0.13		No
E13 Gable (insulation at rafter level)	Independently assessed	9.60	0.02	0.02		No
E15 Flat roof with parapet	Independently assessed	7.00	0.05	0.05		No
E16 Corner (normal)	Independently assessed	12.10	0.03	0.03		No
E18 Party wall between dwellings	Independently assessed	2.50	0.08	0.08		No
E25 Staggered party wall between dwellings	Independently assessed	14.60	0.01	0.01		No
P1 Party wall - Ground floor	Independently assessed	7.60	0.01	0.01		No
P2 Party wall - Intermediate floor within a dwelling	Table K1 - Default	13.20	0.00	0.00		No
P4 Party wall - Roof (insulation at ceiling level)	Independently assessed	3.30	0.01	0.01		No
P5 Party wall - Roof (insulation at rafter level)	Table K1 - Default	4.80	0.48	0.48		No
R1 Head of roof window	Independently assessed	3.10	0.02	0.02		No
R2 Sill of roof window	Independently assessed	3.10	0.02	0.02		No
R3 Jamb of roof window	Independently assessed	4.80	0.02	0.02		No
R4 Ridge (vaulted ceiling)	Independently assessed	4.80	0.01	0.01		No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	2.50	-0.01	-0.01		No
E11 Eaves (insulation at rafter level)	Independently assessed	4.80	0.05	0.05		No

Y-value 0.07 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	3
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System No

Summary for Input Data

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22.0 Pressure Testing	Yes	
Designed AP_{50}	5.50	m³/(h.m²) @ 50 Pa
Property Tested?	Yes	
Test Method	Blower Door	
As Built AP_{50}	3.47	m³/(h.m²) @ 50 Pa

22.0 Lighting

No Fixed Lighting: No

Name	Efficacy	Power	Capacity	Count
Lighting 1	91.67	12.00	1100.00	16

24.0 Main Heating 1	Database	
Description	Gas Boiler	
Percentage of Heat	100.00	%
Database Ref. No.	18763	
Fuel Type	Mains gas	
In Winter	89.00	
In Summer	87.30	
Model Name	ATLANTIC COMBI	
Manufacturer	Ideal Boilers	
System Type	Combi boiler	
Controls SAP Code	2110	
Delayed Start Stat	No	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Unknown	
Boiler Interlock	Yes	
Combi boiler type	Standard Combi	
Combi keep hot type	None	
25.0 Main Heating 2	None	
26.0 Heat Networks	None	
27.0 Secondary Heating	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
Cold Water Source	From mains
Bath Count	1

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower Above Bath	Instantaneous electric shower		9.30	No	

28.3 Waste Water Heat Recovery System

Summary for Input Data

29.0 Hot Water Cylinder	None
In Airing Cupboard	No

32.0 Photovoltaic Unit	One Dwelling
Export Capable Meter?	Yes
Connected To Dwelling	Yes
Diverter	No
Battery Capacity [kWh]	0.00

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
2.00	West	30°	None Or Little		No	1.00		

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
		B 89	B 91
		0	0
		0	0