

Summary for Input Data



Property Reference	P22691(1) Mount P	Issued on Date	24/02/2023
Assessment Reference	P22691(1)	Prop Type Ref	
Property	New House 1, 40-48, Mount Pleasant, Reading, RG1 2TF		

SAP Rating	82 B	DER	4.37	TER	13.79
Environmental	96 A	% DER < TER			68.31
CO ₂ Emissions (t/year)	0.32	DFEE	44.04	TFEE	44.15
Compliance Check	See BREL	% DFEE < TFEE			0.24
% DPER < TPER	36.55	DPER	45.97	TPER	72.46

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

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

Orientation	South
Property Tenure	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

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 m ²	2.50 m
1st Storey:	15.80 m	31.08 m ²	2.80 m
2nd Storey:	12.20 m	17.76 m ²	2.90 m

8.0 Living Area	27.56 m ²
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9.0 External Walls	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
	External Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	114.80	90.11	0.00	None	24.69	Enter Gross Area

9.1 Party Walls	Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	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/m ² K)	Area (m ²)
	Internal Walls - Timber	Plasterboard on timber frame	9.00	105.30

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

10.2 Internal Ceilings	Description	Storey	Construction	Area (m ²)
	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

11.0 Heat Loss Floors

Summary for Input Data



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	0.10	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		0.70	1.20
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

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
E1 Steel lintel with perforated steel base plate	Independently assessed	13.10	0.06	0.06	No
E3 Sill	Independently assessed	8.60	0.04	0.04	No
E4 Jamb	Independently assessed	47.20	0.05	0.05	No
E5 Ground floor (normal)	Independently assessed	15.80	0.06	0.06	No
E6 Intermediate floor within a dwelling	Independently assessed	28.00	0.00	0.00	No
E11 Eaves (insulation at rafter level)	Independently assessed	4.80	0.04	0.04	No
E13 Gable (insulation at rafter level)	Independently assessed	9.60	0.07	0.07	No
E15 Flat roof with parapet	Table K1 - Default	7.00	0.30	0.30	No
E16 Corner (normal)	Independently assessed	12.10	0.04	0.04	No
E18 Party wall between dwellings	Independently assessed	2.50	0.04	0.04	No
E25 Staggered party wall between dwellings	Independently assessed	14.60	0.04	0.04	No
P1 Party wall - Ground floor	Independently assessed	7.60	0.05	0.05	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	0.08	0.08	No
P5 Party wall - Roof (insulation at rafter level)	Table K1 - Default	4.80	0.48	0.48	No
R1 Head of roof window	Table K1 - Default	3.10	0.24	0.24	No
R2 Sill of roof window	Table K1 - Default	3.10	0.24	0.24	No
R3 Jamb of roof window	Table K1 - Default	4.80	0.24	0.24	No
R4 Ridge (vaulted ceiling)	Table K1 - Default	4.80	0.12	0.12	No
E17 Corner (inverted - internal area greater than external area)	Independently assessed	2.50	-0.05	-0.05	No

Y-value W/m²K

18.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Test Method

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

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	16

24.0 Main Heating 1

Description

Percentage of Heat %

Database Ref. No.

Summary for Input Data



Fuel Type	Electricity		
In Winter	0.00		
In Summer	0.00		
Model Name	Ecodan 6.0 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		
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26.0 Heat Networks	None		
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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			
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29.0 Hot Water Cylinder	Hot Water Cylinder		
Cylinder Stat	Yes		
Cylinder In Heated Space	Yes		
Independent Time Control	Yes		
Insulation Type	Measured Loss		
Cylinder Volume	150.00		
Loss	1.86		
Pipes insulation	Fully insulated primary pipework		
In Airing Cupboard	No		

L kWh/day

31.0 Thermal Store	None		
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Recommendations			
Lower cost measures	None		
Further measures to achieve even higher standards			
	Typical Cost	Typical savings per year	Ratings after improvement
	£4,000 - £6,000	£58	SAP rating
	£3,500 - £5,500	£158	B 84
			B 91
			0
			Environmental Impact
			A 97
			A 98
			0