

Summary for Input Data

Property Reference	Plot 15	Issued on Date	22/01/2024
Assessment Reference	2B4P Apt	Prop Type Ref	Benchill Road
Property			

SAP Rating	92 A	DER	1.22	TER	10.39
Environmental	99 A	% DER < TER			88.26
CO ₂ Emissions (t/year)	0.1	DFEE	29.92	TFEE	31.41
Compliance Check	See BREL	% DFEE < TFEE			4.75
% DPER < TPER	55.61	DPER	24.08	TPER	54.26

Assessor Details	Mr. Steven Johnson	Assessor ID	Z708-0001
Client			

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

Orientation	Southeast
Property Tenure	1
Transaction Type	6
Terrain Type	Urban
1.0 Property Type	Flat, End-Terrace
Position of Flat	Top-floor flat
Which Floor	1
2.0 Number of Storeys	2
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	Ground floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	1st Storey:	5.55 m	5.22 m ²	2.77 m
		27.45 m	75.28 m ²	2.31 m

8.0 Living Area	14.00	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 1	Timber Frame	Other	0.16	0.00	78.78	68.85	0.00	None	9.93	Calculate Wall 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	Solid Wall	Dense plaster both sides, dense blocks, cavity or cavity fill	0.00	180.00	34.46		None

9.2 Internal Walls	Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
	Internal Wall 1	Other	75.00	30.00

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 1	External Plane Roof	Other	0.09	0.00	75.28	75.28	None	0.00	Enter Gross Area	0.00

11.0 Heat Loss Floors	Description	Type	Storey Index	Construction	U-Value (W/m ² K)	Shelter Code	Shelter Factor	Kappa (kJ/m ² K)	Area (m ²)
	Heatloss Floor 1	Ground Floor - Solid	Lowest occupied	Other	0.11	None	0.00	0.00	5.22

11.1 Party Floors

Summary for Input Data

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Party Floor 1	+1	Precast concrete planks floor, screed, carpeted	30.00	70.06

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Window	BFRC, BSI or CERTASS data	Window	Double glazed			0.40			1.40
Door	Manufacturer	Solid Door							1.00

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Front	Window	External Wall 1	South East	4.32	
Rear	Window	External Wall 1	North West	2.84	
Opening	Door	External Wall 1	South East	2.14	
Side	Window	External Wall 1	North East	0.63	

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)		8.02			No
E3 Sill		5.65			No
E4 Jamb		15.00			No
E5 Ground floor (normal)		5.55			No
E16 Corner (normal)		12.02			No
E7 Party floor between dwellings (in blocks of flats)		27.45			No
E17 Corner (inverted – internal area greater than external area)		2.31			No
E18 Party wall between dwellings		7.86			No
P1 Party wall - Ground floor		5.55			No
P3 Party wall - Intermediate floor between dwellings (in blocks of flats)		8.25			No
E10 Eaves (insulation at ceiling level)		11.80			No
E12 Gable (insulation at ceiling level)		15.65			No
E25 Staggered party wall between dwellings		2.78			No
P4 Party wall - Roof (insulation at ceiling level)		8.25			No

Y-value W/m²K

Description

18.0 Pressure Testing

Designed AP₅₀ m³/(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

Summary for Input Data

	Name Lighting 1	Efficacy 75.00	Power 4	Capacity 300	Count 10
24.0 Main Heating 1					
	SAP table				
Percentage of Heat	100.00			%	
Fuel Type	Electricity				
SAP Code	691				
In Winter	100.00				
In Summer	334.95				
Controls SAP Code	2603				
25.0 Main Heating 2					
	Database				
Percentage of Heat	0.00			%	
Database Ref. No.	190006				
Fuel Type	Electricity				
In Winter	0.00				
In Summer	334.95				
Model Name	EDL200UK-630				
Manufacturer	GDC Group Ltd				
Controls	2100				
26.0 Heat Networks					
	None				
28.0 Water Heating					
Water Heating	Main Heating 2				
SAP Code	914				
Flue Gas Heat Recovery System	No				
Waste Water Heat Recovery Instantaneous System 1	Yes				
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				
Immersion Only Heating Hot Water	No				
28.1 Showers					
Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
28.3 Waste Water Heat Recovery System Instantaneous System 1					
Database ID	80137				
Brand Model	RECOUP, Easyfit+				
Details	Year: 2017 + current Efficiency: 43.6 Utilisation factor: 0.972				
29.0 Hot Water Cylinder					
	Internal Store				
Insulation Type	Measured Loss				
Cylinder Volume	201.00			L	
Loss	1.61			kWh/day	
In Airing Cupboard	No				
32.0 Photovoltaic Unit					
	One Dwelling				
Export Capable Meter?	Yes				
Connected To Dwelling	Yes				
Diverter	No				

Summary for Input Data



Battery Capacity [kWh]

0.00

PV Cells kWp

Orientation

Elevation

Overshading

FGHRS

MCS Certificate

Overshading
Factor

MCS
Certificate
Reference

Panel
Manufacturer

2.70

South 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
0 0
0 0
0 0