Summary for Input Data

Property Reference	Plot 16	**Issued on Date**	22/01/2024
Assessment Reference	2B4P Apt	**Prop Type Ref**	Benchill Road
Property			

SAP Rating	92 A	**DER**	1.85	**TER**	9.26
Environmental	99 A	**% DER < TER**			80.02
CO_2 Emissions (t/year)	0.15	**DFEE**	24.17	**TFEE**	26.22
Compliance Check	See BREL	**% DFEE < TFEE**			7.81
% DPER < TPER	49.46	**DPER**	24.38	**TPER**	48.24

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

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

Orientation	Southeast
Property Tenture	1
Transaction Type	6
Terrain Type	Urban
1.0 Property Type	Flat, Mid-Terrace
Position of Flat	Ground-floor flat
Which Floor	0
2.0 Number of Storeys	2
3.0 Date Built	2023
4.0 Sheltered Sides	2
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:	1.20 m	5.22 m²	2.77 m
1st Storey:	19.25 m	75.28 m²	2.31 m

8.0 Living Area 14.00 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 1	Timber Frame	Other	0.16	0.00	47.79	38.49	0.00	None	9.30	Calculate Wall Area

9.1 Party Walls

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)	Shelter Res	Shelter
Party Wall 1	Solid Wall	Dense plaster both sides, dense blocks, cavity or cavity fill	0.00	180.00	65.47		None

9.2 Internal Walls

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Wall 1	Other	75.00	30.00

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 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/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
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	

14.0 Conservatory	None	
15.0 Draught Proofing	100	%
16.0 Draught Lobby	No	
17.0 Thermal Bridging	User Input	

17.1 List of Bridges

Bridge Type	Source Type	Length	Psi	Adjusted Reference:	Imported
E2 Other lintels (including other steel lintels)		7.32			No
E3 Sill		4.95			No
E4 Jamb		13.20			No
E5 Ground floor (normal)		1.20			No
E16 Corner (normal)		9.71			No
E7 Party floor between dwellings (in blocks of flats)		19.25			No
E17 Corner (inverted – internal area greater than external area)		2.31			No
E18 Party wall between dwellings		8.33			No
P1 Party wall - Ground floor		9.90			No
P3 Party wall - Intermediate floor between dwellings (in blocks of flats)		16.45			No
E10 Eaves (insulation at ceiling level)		3.60			No
E12 Gable (insulation at ceiling level)		15.65			No
E25 Staggered party wall between dwellings		7.40			No
P4 Party wall - Roof (insulation at ceiling level)		16.45			No

Y-value	0.06	W/m²K
Description	Design	
18.0 Pressure Testing	Yes	
Designed AP_{50}	4.00	m³/(h.m²) @ 50 Pa
Test Method	Blower Door	

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	Yes
Approved Installation	No
Mechanical Ventilation data Type	Database
Type	Balanced mechanical ventilation with heat recovery
MV Reference Number	500484
Manufacturer SFP	0.62
Duct Type	Rigid
MVHR Efficiency	87.00
Wet Rooms	2
SFP from Installer Commissioning Certificate	No
MVHR System Location	Inside heated envelope (installed exclusively)
Duct Installation Specification	Level 2

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System	No

22.0 Lighting

No Fixed Lighting	No				
	Name	**Efficacy**	**Power**	**Capacity**	**Count**

Summary for Input Data

	Lighting 1	75.00	4	300	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
1.50	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