

Summary for Input Data

Property Reference	Plot 02	Issued on Date	22/01/2024
Assessment Reference	2B4P R	Prop Type Ref	Benchill Road
Property			

SAP Rating	92 A	DER	0.94	TER	11.02
Environmental	99 A	% DER < TER			91.47
CO ₂ Emissions (t/year)	0.08	DFEE	34.64	TFEE	35.28
Compliance Check	See BREL	% DFEE < TFEE			1.84
% DPER < TPER	60.40	DPER	22.78	TPER	57.51

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

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

Orientation	Northwest	
Property Tenture	1	
Transaction Type	6	
Terrain Type	Urban	
1.0 Property Type	House, Semi-Detached	
Which Floor	0	
2.0 Number of Storeys	2	
3.0 Date Built	2023	
3.0 Property Age Band	L	
4.0 Sheltered Sides	1	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	N/A	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
Basement:	0.00 m	0.00 m ²	0.00 m
Ground floor:	18.75 m	41.66 m ²	2.77 m
1st Storey:	18.75 m	41.66 m ²	2.31 m
2nd Storey:	0.00 m	0.00 m ²	0.00 m
3rd Storey:	0.00 m	0.00 m ²	0.00 m
4th Storey:	0.00 m	0.00 m ²	0.00 m
5th Storey:	0.00 m	0.00 m ²	0.00 m
6th Storey:	0.00 m	0.00 m ²	0.00 m
7th Storey:	0.00 m	0.00 m ²	0.00 m

8.0 Living Area	14.20	m ²
-----------------	-------	----------------

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	95.25	81.82	0.00	None	13.43	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	39.15	0.00	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
---------------------	-------------	------	--------------	------------------------------	-----------------------------	-----------------------------	-----------------------------	--------------	----------------	------------------	----------

Summary for Input Data



External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	41.66	41.66	None	0.00	Enter Gross Area	0.00
-----------------	---------------------	--	------	------	-------	-------	------	------	------------------	------

10.2 Internal Ceilings

Description	Storey	Construction	Area (m²)
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	41.66

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	41.66

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	41.66

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		Air Filled	0.40	Wood	1.00	1.40
Door	Manufacturer	Solid Door			Air Filled	0.00	Wood	0.70	1.00

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Opening	Window	External Wall 1	North West	3.47	0
Opening	Window	External Wall 1	South East	7.82	0
Opening	Door	External Wall 1	North East	2.14	0

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)		9.33	0.00	0.00	No
E3 Sill		6.34	0.00	0.00	No
E4 Jamb		19.58	0.00	0.00	No
E5 Ground floor (normal)		18.75	0.00	0.00	No
E10 Eaves (insulation at ceiling level)		8.25	0.00	0.00	No
E12 Gable (insulation at ceiling level)		10.50	0.00	0.00	No
E16 Corner (normal)		15.26	0.00	0.00	No
E6 Intermediate floor within a dwelling		18.75	0.00	0.00	No
E17 Corner (inverted – internal area greater than external area)		5.09	0.00	0.00	No
E18 Party wall between dwellings		5.09	0.00	0.00	No
E25 Staggered party wall between dwellings		5.09	0.00	0.00	No
P1 Party wall - Ground floor		7.70	0.00	0.00	No
P2 Party wall - Intermediate floor within a dwelling		7.70	0.00	0.00	No
P4 Party wall - Roof (insulation at ceiling level)		7.70	0.00	0.00	No

Y-value W/m²K

Description

18.0 Pressure Testing

Designed AP₅₀ m³/(h.m²) @ 50 Pa

Property Tested?

Test Method

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present

Approved Installation

Mechanical Ventilation data Type

Type

MV Reference Number

Configuration

Manufacturer SFP

Duct Type

MVHR Efficiency

Summary for Input Data



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 Lighting 1	Efficacy 75.00	Power 4	Capacity 300	Count 10

24.0 Main Heating 1

	Database	
Percentage of Heat	100.00	%
Database Ref. No.	106465	
Fuel Type	Electricity	
SAP Code	0	
In Winter	232.54	
In Summer	170.70	
Model Name	EDLA04EV3	
Manufacturer	Daikin Europe NV	
System Type	Heat Pump	
Controls SAP Code	2210	
Delayed Start Stat	No	
HETAS approved System	No	
Oil Pump Inside	No	
FI Case	0.00	
Flue Type	None or Unknown	
Fan Assisted Flue	No	
Is MHS Pumped	Pump in unheated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Flow Temperature	Enter value	
Flow Temperature Value	55.00	
Boiler Interlock	No	

25.0 Main Heating 2	None
---------------------	------

26.0 Heat Networks	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	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
Summer Immersion	No
Cold Water Source	From mains
Bath Count	1

Summary for Input Data

Supplementary Immersion

Immersion Only Heating Hot Water

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower	Combi boiler or unvented hot water system	11.00		Yes	Instantaneous System 1

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

Hot Water Cylinder	
Cylinder Stat	Yes
Cylinder In Heated Space	Yes
Independent Time Control	Yes
Insulation Type	Measured Loss
Cylinder Volume	179.00
Loss	1.39
Pipes insulation	Fully insulated primary pipework
In Airing Cupboard	No

L kWh/day

31.0 Thermal Store

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
3.00	South West	30°	None Or Little	No	No	1.00		

34.0 Small-scale Hydro

None	
Electricity Generated	0.00
Apportioned	0.00
Connected to dwelling's electricity meter	Yes
Electricity Generation	Annual

kWh/Year

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

Recommendations

Lower cost measures
None

Further measures to achieve even higher standards
None