

Summary for Input Data



Property Reference	Plot 04	Issued on Date	22/01/2024
Assessment Reference	4B8P	Prop Type Ref	Benchill Road
Property			

SAP Rating	92 A	DER	0.82	TER	8.78
Environmental	99 A	% DER < TER			90.66
CO ₂ Emissions (t/year)	0.12	DFEE	35.23	TFEE	35.53
Compliance Check	See BREL	% DFEE < TFEE			0.86
% DPER < TPER	56.12	DPER	20.10	TPER	45.81

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, 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	0	
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:	33.40 m	66.20 m ²	2.77 m
1st Storey:	33.40 m	66.20 m ²	2.27 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	23.50	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	168.34	150.38	0.00	None	17.96	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	40.68	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
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Summary for Input Data



External Roof 1	External Plane Roof	Plasterboard, insulated at ceiling level	0.09	9.00	66.20	66.20	None	0.00	Enter Gross Area	0.00
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10.2 Internal Ceilings

Description	Storey	Construction	Area (m²)
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	66.20

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	66.20

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	66.20

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	4.92	0
Opening	Window	External Wall 1	South East	10.90	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)		12.60	0.00	0.00	No
E3 Sill		8.61	0.00	0.00	No
E4 Jamb		21.70	0.00	0.00	No
E5 Ground floor (normal)		33.40	0.00	0.00	No
E10 Eaves (insulation at ceiling level)		19.60	0.00	0.00	No
E12 Gable (insulation at ceiling level)		13.80	0.00	0.00	No
E16 Corner (normal)		25.23	0.00	0.00	No
E6 Intermediate floor within a dwelling		33.40	0.00	0.00	No
E17 Corner (inverted – internal area greater than external area)		5.05	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

Wet Rooms

SFP from Installer Commissioning Certificate

MVHR System Location

Summary for Input Data



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
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24.0 Main Heating 1

Percentage of Heat

100.00

%

Database Ref. No.

106465

Fuel Type

Electricity

SAP Code

0

In Winter

233.65

In Summer

169.66

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

Supplementary Immersion

No

Immersion Only Heating Hot Water

No

28.1 Showers

Summary for Input Data

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

31.0 Thermal Store

	None
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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
4.20	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

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<p>Recommendations</p> <p>Lower cost measures</p> <p>None</p> <p>Further measures to achieve even higher standards</p> <p>None</p>											