

Summary for Input Data



Property Reference	Plot 05	Issued on Date	22/01/2024
Assessment Reference	3B5P	Prop Type Ref	Benchill Road
Property			

SAP Rating	92 A	DER	0.45	TER	10.68
Environmental	100 A	% DER < TER			95.79
CO ₂ Emissions (t/year)	0.05	DFEE	36.92	TFEE	37.45
Compliance Check	See BREL	% DFEE < TFEE			1.41
% DPER < TPER	63.33	DPER	20.46	TPER	55.79

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:	29.20 m	48.84 m ²	2.77 m
1st Storey:	28.20 m	47.70 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	16.80	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	146.03	132.06	0.00	None	13.97	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	Plasterboard, insulated at ceiling level	0.09	9.00	47.70	47.70	None	0.00	Enter Gross Area	0.00
External Roof 2	External Plane	Plasterboard, insulated at ceiling level	0.09	9.00	1.14	1.14	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	47.70

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	48.84

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	47.70

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	4.31	0
Opening	Window	External Wall 1	South East	7.52	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)		10.20	0.00	0.00	No
E3 Sill		7.38	0.00	0.00	No
E4 Jamb		21.19	0.00	0.00	No
E5 Ground floor (normal)		25.80	0.00	0.00	No
E10 Eaves (insulation at ceiling level)		17.80	0.00	0.00	No
E12 Gable (insulation at ceiling level)		13.80	0.00	0.00	No
E16 Corner (normal)		23.12	0.00	0.00	No
E6 Intermediate floor within a dwelling		28.20	0.00	0.00	No
E17 Corner (inverted – internal area greater than external area)		2.78	0.00	0.00	No

Y-value W/m²K

Description

18.0 Pressure Testing

Designed AP ₅₀	<input type="text" value="3.00"/>	m³/(h.m²) @ 50 Pa
Property Tested?	<input type="text" value="Yes"/>	
Test Method	<input type="text" value="Blower Door"/>	

19.0 Mechanical Ventilation

Mechanical Ventilation	
Mechanical Ventilation System Present	<input type="text" value="Yes"/>
Approved Installation	<input type="text" value="Yes"/>
Mechanical Ventilation data Type	<input type="text" value="Database"/>
Type	<input type="text" value="Balanced mechanical ventilation with heat recovery"/>
MV Reference Number	<input type="text" value="500484"/>
Configuration	<input type="text" value="2"/>
Manufacturer SFP	<input type="text" value="0.62"/>
Duct Type	<input type="text" value="Rigid"/>
MVHR Efficiency	<input type="text" value="87.00"/>
Wet Rooms	<input type="text" value="2"/>
SFP from Installer Commissioning Certificate	<input type="text" value="No"/>

Summary for Input Data



MVHR System Location

Duct Installation Specification

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Lighting 1	75.00	4	300	10

24.0 Main Heating 1

Percentage of Heat %

Database Ref. No.

Fuel Type

SAP Code

In Winter

In Summer

Model Name

Manufacturer

System Type

Controls SAP Code

Delayed Start Stat

HETAS approved System

Oil Pump Inside

FI Case

Flue Type

Fan Assisted Flue

Is MHS Pumped

Heating Pump Age

Heat Emitter

Flow Temperature

Flow Temperature Value

Boiler Interlock

25.0 Main Heating 2

26.0 Heat Networks

28.0 Water Heating

Water Heating

SAP Code

Flue Gas Heat Recovery System

Waste Water Heat Recovery Instantaneous System 1

Waste Water Heat Recovery Instantaneous System 2

Waste Water Heat Recovery Storage System

Solar Panel

Water use <= 125 litres/person/day

Summer Immersion

Cold Water Source

Bath Count

Supplementary Immersion

Immersion Only Heating Hot Water

Summary for Input Data



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

31.0 Thermal Store

None

32.0 Photovoltaic Unit

1.0 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
4.00	South West	30°	None Or Little	No	No	1.00		

34.0 Small-scale Hydro

0 Small-scale Hydro	None	
Electricity Generated	0.00	
Apportioned	0.00	kWh/Year
Connected to dwelling's electricity meter	Yes	
Electricity Generation	Annual	

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

Lower cost measures	None
Further measures to achieve even higher standards	None