

Summary for Input Data



Plot Reference	Main House	Issued on Date	03/09/2026
Assessment Reference	Rev P01	Plot Type Ref	
Plot Address		SAP Version	10.2

SAP Rating	83 B	DER	2.60	TER	11.08
Environmental	97 A	% DER < TER			76.53
CO ₂ Emissions (t/year)	2.46	DFEE	55.29	TFEE	55.87
Compliance Check	See BREL	% DFEE < TFEE			1.04
% DPER < TPER	51.27	DPER	28.96	TPER	59.43

Assessor Details	Mr. Ross MacGregor	Assessor ID	AN05-0001
Client	Spink, Spink Partners		

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

Orientation	North	
Property Tenture	1	
Transaction Type	6	
Terrain Type	Rural	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2026	
4.0 Sheltered Sides	0	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	326.59	kJ/m²K
7.0 Electricity Tariff		
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:	123.08 m	344.73 m ²	2.32 m
		172.17 m	844.21 m ²	4.15 m

8.0 Living Area	57.74	m ²
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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 Walls	Cavity Wall	Cavity wall : dense plaster, dense block, filled cavity, any outside structure	0.15	190.00	805.17	577.67	0.00	None	227.50	Enter Gross Area
Basement Wall (Assumed)	Solid Wall	Solid wall : plasterboard on dabs, insulation, any outside structure	0.20	9.00	49.83	49.83	0.00	None	0.00	Enter Gross Area
To Plant	Solid Wall	Solid wall : plasterboard on dabs, insulation, any outside structure	0.20	9.00	55.24	53.32	0.00	None	1.92	Enter Gross Area
To Garage	Cavity Wall	Cavity wall : dense plaster, dense block, filled cavity, any outside structure	0.20	190.00	89.81	89.81	0.00	None	0.00	Enter Gross Area

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Internal Walls	Dense block, dense plaster	100.00	1853.68

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
Pitched Roof	External Slope Roof	Plasterboard, insulated slope	0.10	9.00	970.84	970.84	None	0.00	Enter Gross Area	0.00
Terrace Roof	External Flat Roof	Plasterboard, insulated flat roof	0.15	9.00	78.92	78.92	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m ²)
Internal Ceiling	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	344.73

11.0 Heat Loss Floors

Summary for Input Data



Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor (Basement)	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.10	None	0.00	75.00	344.73
Ground Floor (First)	Ground Floor - Solid	+1	Suspended concrete floor, carpeted	0.10	None	0.00	75.00	407.55

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor	+1	Plasterboard ceiling, carpeted chipboard floor	18.00	344.73

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Standard Windows	Manufacturer	Window	Double glazed			0.62		0.80	1.20
High Risk Windows	Manufacturer	Window	Double glazed			0.40		0.80	1.20
Solid Doors	Manufacturer	Solid Door				0.00			1.20
Roof Windows	Manufacturer	Roof Window	Double glazed			0.40		0.70	1.20

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
South Windows	High Risk Windows	External Walls	South	79.63	
West Windows	High Risk Windows	External Walls	West	67.47	
East Windows	High Risk Windows	External Walls	East	66.66	
North Windows	Standard Windows	External Walls	North	9.90	
Solid Doors West	Solid Doors	External Walls	West	1.92	
Solid Doors North	Solid Doors	To Plant	North	1.92	
Solid Doors South	Solid Doors	External Walls	South	1.92	

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)	Gov Approved Scheme	75.02	0.02	ROI Steel Frame Assumed	No
E3 Sill	Gov Approved Scheme	1.62	0.02		No
E4 Jamb	Gov Approved Scheme	149.34	0.02		No
E5 Ground floor (normal)	Gov Approved Scheme	172.17	0.11		No
E6 Intermediate floor within a dwelling	Gov Approved Scheme	75.18	0.06		No
E11 Eaves (insulation at rafter level)	Gov Approved Scheme	172.17	0.01		No
E14 Flat roof	Gov Approved Scheme	47.90	0.10	Assumed	No
E16 Corner (normal)	Gov Approved Scheme	56.40	0.03		No
E17 Corner (inverted – internal area greater than external area)	Gov Approved Scheme	30.52	-0.04		No

Y-value W/m²K

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present	Yes
Mechanical Ventilation data Type	Data Sheet
Type	Balanced mechanical ventilation with heat recovery
Manufacturer SFP	0.50
Duct Type	Rigid
MVHR Efficiency	85.00
Wet Rooms	17
Brand, Model	TBC
SFP from Installer Commissioning Certificate	No
MVHR System Location	Inside heated envelope (installed exclusively)
Duct Installation Specification	Level 1

20.0 Fans, Open Fireplaces, Flues

Number of open chimneys	0
Number of open flues	0
Number of chimneys/flues attached to closed fire	0
Number of flues attached to solid fuel boiler	0
Number of flues attached to other heater	0
Number of blocked chimneys	0
Number of intermittent extract fans	0

Summary for Input Data

Number of passive vents

Number of flueless gas fires

21.0 Fixed Cooling System

Yes

Cooled Area m²

Data Source

Energy Class

22.0 Pressure Testing

Yes

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Lighting	100.00	5.00	500.00	50

24.0 Main Heating 1

SAP table

Percentage of Heat %

Fuel Type

SAP Code

In Winter

In Summer

Controls SAP Code

Controls description

Is MHS Pumped

Heating Pump Age

Heat Emitter

Underfloor Heating

Flow Temperature

Flow Temperature Value

25.0 Main Heating 2

26.0 Heat Networks

27.0 Secondary Heating

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

Cold Water Source

Bath Count

Supplementary Immersion

Immersion Only Heating Hot Water

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Showers	Unknown	9.00		No	

28.3 Waste Water Heat Recovery System

Summary for Input Data

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	500.00	L
Loss	1.86	kWh/day
Pipes insulation	Fully insulated primary pipework	

31.0 Thermal Store

None

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
12.90	Horizontal	Horizontal	Modest		No	0.80		

34.0 Small-scale Hydro

None

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

	Typical Cost	Typical savings per year	Ratings after improvement	
			SAP rating	Environmental Impact
Solar water heating			B 84	A 97
Photovoltaic			0	0
Wind turbine	£5,000 - £20,000	£755	B 86	A 97