

Summary for Input Data



Plot Reference	New Dwelling	Issued on Date	23/02/2026
Assessment Reference	New Dwelling	Plot Type Ref	
Plot Address		SAP Version	10.2

SAP Rating	80 C	DER	4.31	TER	12.04
Environmental	96 A	% DER < TER			64.20
CO ₂ Emissions (t/year)	0.39	DFEE	44.92	TFEE	45.65
Compliance Check	See BREL	% DFEE < TFEE			1.59
% DPER < TPER	25.89	DPER	46.74	TPER	63.07

Assessor Details	Mr. Daniel Towns	Assessor ID	Y077-0001
Client	JosTec, -		

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

Orientation	West	
Property Tenture	ND	
Transaction Type	6	
Terrain Type	Suburban	
1.0 Property Type	House, Detached	
2.0 Number of Storeys	2	
3.0 Date Built	2026	
4.0 Sheltered Sides	1	
5.0 Sunlight/Shade	Average or unknown	
6.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	127.56	kJ/m²

7.0 Electricity Tariff	Standard
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:	30.38 m	55.14 m²	2.42 m
		33.50 m	47.80 m²	2.68 m

8.0 Living Area	48.63	m²
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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	Cavity Wall	Cavity wall : plasterboard on dabs, AAC block, filled cavity, any outside structure	0.18	60.00	110.29	91.56	0.00	None	18.73	Enter Gross Area
Dormer Wall	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	11.58	9.48	0.00	None	2.10	Enter Gross Area
Loft Stud Wall (0.15x0.72)	Timber Frame	Timber framed wall (one layer of plasterboard)	0.11	9.00	23.49	23.49	0.00	None	0.00	Enter Gross Area

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Wall	Plasterboard on timber frame	9.00	142.74

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Gross Area(m²)	Nett Area (m²)	Shelter Code	Shelter Factor	Calculation Type	Openings
Flat Ceiling	External Plane Roof	Plasterboard, insulated at ceiling level	0.11	9.00	8.12	8.12	None	0.00	Enter Gross Area	0.00
Sloped Ceiling	External Slope Roof	Plasterboard, insulated slope	0.15	9.00	56.02	54.52	None	0.00	Enter Gross Area	1.50
Sheltered (0.15x0.72)	External Plane Roof	Plasterboard, insulated at ceiling level	0.11	9.00	7.34	7.34	None	0.00	Enter Gross Area	0.00

Description	Storey	Construction	Kappa	Area (m²)
Internal Ceiling	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	9.00	47.80

Description	Type	Storey Index	Construction	U-Value (W/m²K)	Shelter Code	Shelter Factor	Kappa (kJ/m²K)	Area (m²)
Ground Floor	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.12	None	0.00	75.00	55.14

Summary for Input Data

11.2 Internal Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Internal Floor	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	18.00	47.80

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Window	Manufacturer	Window	Double Low-E Soft 0.1			0.63		0.70	1.40
H/G Door	Manufacturer	Half Glazed Door	Double Low-E Soft 0.1			0.63		0.70	1.40
Roof Window	Manufacturer	Roof Window	Double Low-E Soft 0.1			0.63		0.70	1.40

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
East - H/G Door	H/G Door	External Wall	East	2.05	
West - H/G Door	H/G Door	External Wall	West	2.25	
East - Window	Window	External Wall	East	1.96	
North - Window	Window	External Wall	North	2.08	
South - Window	Window	External Wall	South	5.91	
West - Window	Window	External Wall	West	4.48	
West - Window	Window	Dormer Wall	West	2.10	
West - Roof Window	Roof Window	Sloped Ceiling	West	1.50	45

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)	Non Gov Approved Schemes	16.28	0.03	0.03 RCD	No
E3 Sill	Non Gov Approved Schemes	12.20	0.02	0.02 RCD	No
E4 Jamb	Non Gov Approved Schemes	35.20	0.02	0.02 RCD	No
E5 Ground floor (normal)	Non Gov Approved Schemes	30.38	0.07	0.07 RCD	No
E6 Intermediate floor within a dwelling	Non Gov Approved Schemes	30.38	0.00	0.00 RCD	No
E11 Eaves (insulation at rafter level)	Non Gov Approved Schemes	16.36	0.02	0.02 RCD	No
E12 Gable (insulation at ceiling level)	Non Gov Approved Schemes	4.29	0.04	0.04 RCD	No
E13 Gable (insulation at rafter level)	Non Gov Approved Schemes	13.70	0.04	0.04 RCD	No
E16 Corner (normal)	Non Gov Approved Schemes	21.50	0.04	0.04 RCD	No
R1 Head of roof window	Table K1 - Default	1.56	0.24	0.24	No
R2 Sill of roof window	Table K1 - Default	1.56	0.24	0.24	No
R3 Jamb of roof window	Table K1 - Default	3.84	0.24	0.24	No
R4 Ridge (vaulted ceiling)	Table K1 - Default	16.86	0.12	0.12	No
R5 Ridge (inverted)	Table K1 - Default	5.91	0.12	0.12	No
R6 Flat ceiling	Table K1 - Default	3.78	0.12	0.12	No
R7 Flat ceiling (inverted)	Table K1 - Default	4.29	0.12	0.12	No
R8 Roof to wall (rafter)	Table K1 - Default	28.30	0.12	0.12	No

Y-value W/m²K

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	500501
Configuration	4
Manufacturer SFP	0.75
Duct Type	Rigid
MVHR Efficiency	88.00
Wet Rooms	4
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

Summary for Input Data

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
Number of passive vents	0
Number of flueless gas fires	0

21.0 Fixed Cooling System

22.0 Pressure Testing

Designed AP₅₀ m²/(h.m²) @ 50 Pa

Test Method

22.0 Lighting
No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Lighting	80.00	5.00	400.00	10

24.0 Main Heating 1

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

Summary for Input Data

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
Shower 1	Combi boiler or unvented hot water system	11.00		No	
Shower 2	Combi boiler or unvented hot water system	11.00		No	

28.3 Waste Water Heat Recovery System

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	200.00
Loss	2.06
Pipes insulation	Fully insulated primary pipework

L

kWh/day

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
1.00	West	45°	None Or Little		No	1.00		

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	£4,000 - £7,000	£90	B 82	A 96
Photovoltaic			0	0
Wind turbine			0	0