

# Summary for Input Data



Property Reference	23.SAP.129 ALA	Issued on Date	24/09/2023
Assessment Reference	DESIGN	Prop Type Ref	
Property	40 Vicarage Meadow, FOWEY, PL23 1EA		

SAP Rating	95 A	DER	-0.42	TER	10.06
Environmental	101 A	% DER < TER			104.17
CO <sub>2</sub> Emissions (t/year)	-0.22	DFEE	42.18	TFEE	46.45
Compliance Check	See BREL	% DFEE < TFEE			9.19
% DPER < TPER	76.18	DPER	12.61	TPER	52.92

Assessor Details	Mrs. Sophie Oakland	Assessor ID	F859-0001
Client	ALARCHITECTS, -		

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

Orientation	Southeast
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	House, Detached
2.0 Number of Storeys	2
3.0 Date Built	2023
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation

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
	Ground floor:	37.75 m	84.98 m <sup>2</sup>	2.39 m
	1st Storey:	40.15 m	72.65 m <sup>2</sup>	3.39 m

8.0 Living Area	61.54	m <sup>2</sup>
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Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Gross Area(m <sup>2</sup> )	Nett Area (m <sup>2</sup> )	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Timber Frame	Timber framed wall (one layer of plasterboard)	0.15	9.00	188.86	153.78	0.00	None	35.08	Enter Gross Area

Description	Construction	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Internal Wall 1	Plasterboard on timber frame	9.00	218.64

Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Gross Area(m <sup>2</sup> )	Nett Area (m <sup>2</sup> )	Shelter Code	Shelter Factor	Calculation Type	Openings
External Roof 1	External Slope Roof	Plasterboard, insulated slope	0.15	9.00	109.91	103.85	None	0.00	Enter Gross Area	6.06

Description	Storey	Construction	Area (m <sup>2</sup> )
Internal Ceiling 1	Lowest occupied	Plasterboard ceiling, carpeted chipboard floor	64.30

Description	Type	Storey Index	Construction	U-Value (W/m <sup>2</sup> K)	Shelter Code	Shelter Factor	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Heat Loss Floor 1	Ground Floor - Solid	Lowest occupied	Suspended concrete floor, carpeted	0.09	None	0.00	75.00	84.98
Heat Loss Floor 2	Exposed Floor - Timber	+1	Timber exposed floor, insulation between joists	0.12	None	0.00	20.00	8.36

Description	Storey Index	Construction	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Internal Floor 1		Plasterboard ceiling, carpeted chipboard floor	9.00	64.30

# Summary for Input Data



## 12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
NEW WINDOWS	Manufacturer	Window	Triple Low-E Soft 0.05			0.57		0.70	1.10
NEW PAT/ BIFOLD DOORS	Manufacturer	Window	Triple Low-E Soft 0.05			0.57		0.70	1.10
DOOR	Manufacturer	Solid Door							1.10
RL	Manufacturer	Roof Window	Triple Low-E Soft 0.05			0.57		0.70	1.10

## 13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
NW	NEW WINDOWS	External Wall 1	North West	2.04	
NW DOORS	NEW PAT/ BIFOLD DOORS	External Wall 1	North West	7.61	
SW	NEW WINDOWS	External Wall 1	South West	1.27	
SW DOORS	NEW PAT/ BIFOLD DOORS	External Wall 1	South West	4.28	
SW RL	RL	External Roof 1	South West	4.39	30
SE	NEW WINDOWS	External Wall 1	South East	6.91	
SE DOORS	NEW PAT/ BIFOLD DOORS	External Wall 1	South East	6.62	
DOOR	DOOR	External Wall 1	South East	3.56	
NE	NEW WINDOWS	External Wall 1	North East	2.78	
RL	RL	External Roof 1	North East	1.67	30

## 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)	Independently assessed	21.32	0.04	0.04 IRELAND ACDS	Yes
E3 Sill	Independently assessed	19.60	0.03	0.03 IRELAND ACDS	Yes
E4 Jamb	Independently assessed	66.98	0.04	0.04 IRELAND ACDS	Yes
E5 Ground floor (normal)	Independently assessed	37.75	0.02	0.02 IRELAND ACDS	Yes
E6 Intermediate floor within a dwelling	Independently assessed	40.15	0.08	0.08 IRELAND ACDS	Yes
E16 Corner (normal)	Independently assessed	23.12	0.03	0.03 IRELAND ACDS	Yes
R1 Head of roof window	Table K1 - Default	2.78	0.24	0.24 DEFAULT	Yes
R2 Sill of roof window	Table K1 - Default	2.78	0.24	0.24 DEFAULT	Yes
R3 Jamb of roof window	Table K1 - Default	12.20	0.24	0.24 DEFAULT	Yes
E11 Eaves (insulation at rafter level)	Independently assessed	28.57	0.03	0.03 IRELAND ACDS	No
E13 Gable (insulation at rafter level)	Independently assessed	22.74	0.02	0.02 IRELAND ACDS	No
E17 Corner (inverted – internal area greater than external area)	Independently assessed	2.31	-0.01	-0.01 IRELAND ACDS	No
E20 Exposed floor (normal)	Table K1 - Default	9.36	0.32	0.32	No
E21 Exposed floor (inverted)	Table K1 - Default	6.97	0.32	0.32	No
R4 Ridge (vaulted ceiling)	Table K1 - Default	10.43	0.12	0.12	No

Y-value  W/m²K

## 18.0 Pressure Testing

Designed AP<sub>50</sub>  m³/(h.m²) @ 50 Pa

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

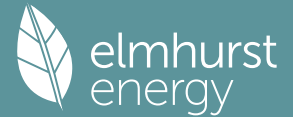
SFP from Installer Commissioning Certificate

MVHR System Location

Duct Installation Specification

## 20.0 Fans, Open Fireplaces, Flues

# Summary for Input Data



**21.0 Fixed Cooling System**

**22.0 Lighting**

No Fixed Lighting

Name	Efficacy	Power	Capacity	Count
Low energy Lighting	12.00	10	120	30

**24.0 Main Heating 1**

Database

Percentage of Heat  %

Database Ref. No.

Fuel Type

In Winter

In Summer

Model Name

Manufacturer

System Type

Controls SAP Code

PCDF Controls

Is MHS Pumped

Heating Pump Age

Heat Emitter

Underfloor Heating

Flow Temperature

Flow Temperature Value

**25.0 Main Heating 2**

**26.0 Heat Networks**

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	Fuel Factor	Efficiency type
Heat source 1									
Heat source 2									
Heat source 3									
Heat source 4									
Heat source 5									

**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

Immersion Only Heating Hot Water

**28.1 Showers**

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
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**28.3 Waste Water Heat Recovery System**

**29.0 Hot Water Cylinder**

Hot Water Cylinder

Cylinder Stat

Cylinder In Heated Space

# Summary for Input Data



Independent Time Control	<input type="text" value="Yes"/>	
Insulation Type	<input type="text" value="Measured Loss"/>	
Cylinder Volume	<input type="text" value="250.00"/>	L
Loss	<input type="text" value="2.10"/>	kWh/day
Pipes insulation	<input type="text" value="Fully insulated primary pipework"/>	
In Airing Cupboard	<input type="text" value="No"/>	

**31.0 Thermal Store**

**32.0 Photovoltaic Unit**

Export Capable Meter?

Connected To Dwelling

Diverter

Battery Capacity [kWh]

PV Cells kWp	Orientation	Elevation	Overshading	FGHRS	MCS Certificate	Overshading Factor	MCS Certificate Reference	Panel Manufacturer
6.50	South West	30°			Yes	1.00		

**34.0 Small-scale Hydro**

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

**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
£4,000 - £6,000	£63	A 96	A 101
		0	0
		0	0