

SUMMARY FOR INPUT DATA

Calculation Type: Conversion (As Built)

Property Reference	2- Plot 11 ASHP		Issued on Date	06/02/2024	
Assessment Reference	001	Prop Type Ref	Refurb Plot 11		
Property	Flat 11, Quilter House, 2A Tankerville Road, London, SW16 5FX				
SAP Rating	83 B	DER	N/A	TER	N/A
Environmental	85 B	% DER<TER	N/A		
CO ₂ Emissions (t/year)	0.91	DFEE	N/A	TFEE	N/A
General Requirements Compliance	N/A	% DFEE<TFEE	N/A		
Assessor Details	Mr. Matthew Edis, Sustainable Construction Services Ltd, Tel: 0845 6807 175, medis@scspartnership.co.uk			Assessor ID	V539-0001
Client					

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Orientation	South West
Property Tenure	Unknown
Transaction Type	New dwelling
Terrain Type	Urban
1.0 Property Type	Flat, Semi-Detached
2.0 Number of Storeys	1
3.0 Date Built	2021
4.0 Sheltered Sides	2
5.0 Sunlight/Shade	Average or unknown

6.0 Measurements

	Ground Floor:	Heat Loss Perimeter	Internal Floor Area	Average Storey Height
		1.00 m	50.10 m ²	2.55 m
7.0 Living Area	28.00		m ²	
8.0 Thermal Mass Parameter	Precise calculation			
Thermal Mass	213.7			kJ/m ² K

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)
External Wall MAT 1 New	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	27.01	16.34
Ext Wall Grey brick - Existing	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	7.65	5.74
Gable MAT 1 New	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	3.40	3.40

9.1 Party Walls

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)
Wall to Apartments	Filled Cavity with Edge Sealing	Single plasterboard on both sides, dense cellular blocks, cavity	0.00	70.00	53.30

9.2 Internal Walls

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Internal Wall	Plasterboard on timber frame	9.00	77.62

10.0 External Roofs

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Flat Roof	External Flat Roof	Plasterboard, insulated at ceiling level	0.18	9.00	50.10	50.10

11.1 Party Floors

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Party Floor	Precast concrete planks floor, screed, carpeted	40.00	50.10

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Argon Filled	G-value	Frame Type	Frame Factor	U Value (W/m ² K)
W1 Door	Manufacture r	Window	Double glazed			0.36		0.70	1.40
ET09 101	Manufacture r	Solid Door							0.63
ET21	Manufacture r	Window	Double glazed			0.53		0.72	1.12
ET18	Manufacture r	Window	Triple glazed			0.53		0.59	0.91
ET15	Manufacture r	Window	Triple glazed			0.53		0.60	0.88
ET12.1	Manufacture r	Window	Triple glazed			0.53		0.76	0.97

13.0 Openings

Name	Opening Type	Location	Orientation	Curtain Type	Overhang Ratio	Wide Overhang	Width (m)	Height (m)	Count	Area (m ²)	Curtain Closed
W1 Door	Solid Door	[1] External Wall MAT 1 New	South West							2.30	
W2	Window	[2] Ext Wall Grey brick - Existing	North East	None	0.00					1.91	
W3	Window	[1] External Wall MAT 1 New	North East	None	0.00					1.20	
W4	Window	[1] External Wall MAT 1 New	South East	None	0.80	No				2.05	
W5	Window	[1] External Wall MAT 1 New	North East	None	1.25	No				3.57	
W6	Window	[1] External Wall MAT 1 New	South West	None	0.00					1.55	

14.0 Conservatory

15.0 Draught Proofing

 %

16.0 Draught Lobby

17.0 Thermal Bridging

Y-value

W/m²K

18.0 Pressure Testing

Designed AP₅₀

m³/(h.m²) @ 50 Pa

Property Tested ?

As Built AP₅₀

m³/(h.m²) @ 50 Pa

19.0 Mechanical Ventilation

Summer Overheating

Windows open in hot weather

Cross ventilation possible

Night Ventilation

Air change rate

Mechanical Ventilation

Mechanical Ventilation System Present

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Approved Installation	No
Mechanical Ventilation data Type	Database
Type	Balanced mechanical ventilation with heat recovery
MV Reference Number	500140
Configuration	1
MVHR Duct Insulated	Yes
Manufacturer SFP	0.76
Duct Type	Rigid
MVHR Efficiency	91.00
Wet Rooms	1

20.0 Fans, Open Fireplaces, Flues

	MHS	SHS	Other	Total
Number of Chimneys	0		0	0
Number of open flues	0		0	0
Number of intermittent fans				0
Number of passive vents				0
Number of flueless gas fires				0

21.0 Fixed Cooling System

No

22.0 Lighting

Internal

Total number of light fittings	10	
Total number of L.E.L. fittings	10	
Percentage of L.E.L. fittings	100.00	%

External

External lights fitted: No

23.0 Electricity Tariff

Standard

24.0 Main Heating 1

Database	
Percentage of Heat	100 %
Database Ref. No.	104367
Fuel Type	Electricity
Main Heating	PET
SAP Code	224
In Winter	0.0
In Summer	0.0
Controls	CHF Programmer and at least two room thermostats
PCDF Controls	0
Sap Code	2205
Is MHS Pumped	in unheated space
Heat Emitter	Radiators
Flow Temperature	Normal (> 45°C)

25.0 Main Heating 2

None

Community Heating: None

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28.0 Water Heating

	HWP From main heating 1
Water Heating	Main Heating 1
Flue Gas Heat Recovery System	No
Waste Water Heat Recovery Instantaneous System 1	No
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
SAP Code	901
Immersion Only Heating Hot Water	No

29.0 Hot Water Cylinder

	Hot Water Cylinder
Cylinder Stat	Yes
Cylinder In Heated Space	Yes
Independent Time Control	Yes
Insulation Type	Foam
Insulation Thickness	60
Cylinder Volume	150.00
Pipes insulation	Fully insulated primary pipework

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31.0 Thermal Store

	None
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Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

None