

# SUMMARY FOR INPUT DATA

## Calculation Type: Conversion (As Built)

Property Reference	2- Plot 2 ASHP		Issued on Date	06/02/2024	
Assessment Reference	001	Prop Type Ref	Refurb Plot 2		
Property	Flat 2, Quilter House, 2A Tankerville Road, London, SW16 5FX				
SAP Rating	82 B	DER	N/A	TER	N/A
Environmental	86 B	% DER<TER	N/A		
CO <sub>2</sub> Emissions (t/year)	0.75	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 East					
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						
		Heat Loss Perimeter	Internal Floor Area	Average Storey Height		
	Ground Floor:	1.00 m	46.40 m <sup>2</sup>	2.65 m		
7.0 Living Area	38.60	m <sup>2</sup>				
8.0 Thermal Mass Parameter	Precise calculation					
Thermal Mass	252.19	kJ/m <sup>2</sup> K				
9.0 External Walls						
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> )
External Wall MAT 1 New	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	16.16	8.86
Ext Wall Grey brick - Existing	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	15.95	12.68
9.1 Party Walls						
Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )	
Wall to Apartments	Filled Cavity with Edge Sealing	Single plasterboard on both sides, dense cellular blocks, cavity	0.00	70.00	48.12	
9.2 Internal Walls						
Description	Construction			Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )	
Internal Wall	Plasterboard on timber frame			9.00	46.16	
10.0 External Roofs						
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> )
Flat Roof	External Flat Roof	Plasterboard, insulated flat roof	0.18	9.00	8.83	8.83

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### 10.1 Party Ceilings

Description	Construction	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Party Ceiling	Other	30.00	37.57

### 11.0 Heat Loss Floors

Description	Type	Construction	U-Value (W/m <sup>2</sup> K)	Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Floor over Class E	Exposed Floor - Solid	Suspended concrete floor, carpeted	0.20	75.00	46.40

### 12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Argon Filled	G-value	Frame Type	Frame Factor	U Value (W/m <sup>2</sup> K)
W1 Door	Manufacture	Window	Double glazed			0.36		0.70	1.40
ET09 101	Manufacture	Solid Door							0.63
ET11 104	Manufacture	Window	Triple glazed			0.68		0.76	0.98

### 13.0 Openings

Name	Opening Type	Location	Orientation	Curtain Type	Overhang Ratio	Wide Overhang	Width (m)	Height (m)	Count	Area (m <sup>2</sup> )	Curtain Closed
W1 Door	Solid Door	[1] External Wall MAT 1 New	South East							2.30	
W2 / W3	Window	[2] Ext Wall Grey brick - Existing	North West	None	0.00					3.27	
W4	Window	[1] External Wall MAT 1 New	South East	None	0.00					5.00	

### 14.0 Conservatory

### 15.0 Draught Proofing

 %

### 16.0 Draught Lobby

### 17.0 Thermal Bridging

Y-value

 W/m<sup>2</sup>K

### 18.0 Pressure Testing

Designed AP<sub>50</sub>

 m<sup>3</sup>/(h.m<sup>2</sup>) @ 50 Pa

Property Tested ?

As Built AP<sub>50</sub>

 m<sup>3</sup>/(h.m<sup>2</sup>) @ 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

Approved Installation

Mechanical Ventilation data Type

Type

MV Reference Number

Configuration

MVHR Duct Insulated

Manufacturer SFP

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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	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

### 28.0 Water Heating

HWP From main heating 1	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

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Solar Panel	No			
Water use <= 125 litres/person/day	Yes			
SAP Code	901			
Immersion Only Heating Hot Water	No			
<b>29.0 Hot Water Cylinder</b>	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 L			
Pipes insulation	Fully insulated primary pipework			
<b>31.0 Thermal Store</b>	None			
<b>32.0 Photovoltaic Unit</b>	One Dwelling			
<b>PV Cells kWp</b>	<b>Orientation</b>	<b>Elevation</b>	<b>Overshading</b>	<b>Connected to Dwelling</b>
0.50	South	30°	Modest	No

### Recommendations

#### Lower cost measures

None

#### Further measures to achieve even higher standards

None