

# SUMMARY FOR INPUT DATA

## Calculation Type: Conversion (As Built)

Property Reference	2- Plot 4 ASHP		Issued on Date	06/02/2024	
Assessment Reference	001	Prop Type Ref	Refurb Plot 4		
Property	Flat 4, 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 <sub>2</sub> Emissions (t/year)	0.92	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					

### SUMMARY FOR INPUT DATA FOR: Conversion (As Built)

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		Heat Loss Perimeter	Internal Floor Area	Average Storey Height			
	Ground Floor:	1.00 m	50.30 m <sup>2</sup>	2.65 m			
7.0 Living Area	28.00	m <sup>2</sup>					
8.0 Thermal Mass Parameter	Precise calculation						
Thermal Mass	271.57	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	28.11	18.41
	Ext Wall Grey brick - Existing	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.15	150.00	7.98	6.78
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	55.33	
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	80.78	
10.1 Party Ceilings	Description	Construction			Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )	
	Party Ceiling	Other			30.00	50.30	

# SUMMARY FOR INPUT DATA

## Calculation Type: Conversion (As Built)

### 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	46.97
Floor over Cycle store	Exposed Floor - Solid	Suspended concrete floor, carpeted	0.20	75.00	3.33

### 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
ET21	Manufacture	Window	Double glazed			0.76		0.70	1.12
ET15	Manufacture	Window	Triple glazed			0.53		0.60	0.88
ET18	Manufacture	Window	Triple glazed			0.53		0.59	0.91
ET12	Manufacture	Window	Double glazed			0.53		0.76	1.55

### 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 West							2.30	
W2	Window	[2] Ext Wall Grey brick - Existing	North East	None	0.00					1.20	
W3	Window	[1] External Wall MAT 1 New	South East	None	0.97	No				2.05	
W4	Window	[1] External Wall MAT 1 New	North East	None	1.03	No				3.57	
W5	Window	[1] External Wall MAT 1 New	South West	None	0.00					1.78	

### 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

# SUMMARY FOR INPUT DATA

## Calculation Type: Conversion (As Built)

	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

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

Water Heating	HWP From main heating 1
Flue Gas Heat Recovery System	Main Heating 1
	No

# SUMMARY FOR INPUT DATA

## Calculation Type: Conversion (As Built)

Waste Water Heat Recovery Instantaneous System 1	<input type="text" value="No"/>
Waste Water Heat Recovery Instantaneous System 2	<input type="text" value="No"/>
Waste Water Heat Recovery Storage System	<input type="text" value="No"/>
Solar Panel	<input type="text" value="No"/>
Water use <= 125 litres/person/day	<input type="text" value="Yes"/>
SAP Code	<input type="text" value="901"/>
Immersion Only Heating Hot Water	<input type="text" value="No"/>
<hr/>	
<b>29.0 Hot Water Cylinder</b>	<input type="text" value="Hot Water Cylinder"/>
Cylinder Stat	<input type="text" value="Yes"/>
Cylinder In Heated Space	<input type="text" value="Yes"/>
Independent Time Control	<input type="text" value="Yes"/>
Insulation Type	<input type="text" value="Foam"/>
Insulation Thickness	<input type="text" value="60"/>
Cylinder Volume	<input type="text" value="150.00"/>
Pipes insulation	<input type="text" value="Fully insulated primary pipework"/>
<hr/>	
<b>31.0 Thermal Store</b>	<input type="text" value="None"/>

**Recommendations**

**Lower cost measures**

None

**Further measures to achieve even higher standards**

None

L