

# SUMMARY FOR INPUT DATA

## Calculation Type: New Build (As Built)

Property Reference	2- Plot 6 ASHP			Issued on Date	06/02/2024
Assessment Reference	001	Prop Type Ref	new Build Plot 6		
Property	Flat 6, Quilter House, 2A Tankerville Road, London, SW16 5FX				
SAP Rating	84 B	DER	21.19	TER	32.09
Environmental	86 B	% DER<TER	33.96		
CO <sub>2</sub> Emissions (t/year)	1.00	DFEE	56.10	TFEE	64.74
General Requirements Compliance	Fail	% DFEE<TFEE	13.34		
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	North 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 1.00 m	Internal Floor Area 62.50 m <sup>2</sup>	Average Storey Height 2.65 m

7.0 Living Area	25.00	m <sup>2</sup>
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8.0 Thermal Mass Parameter	Precise calculation	
Thermal Mass	284.68	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	54.36	36.11
Wall to Stairwell	Cavity Wall	Cavity wall : plasterboard on dabs, dense block, filled cavity, any outside structure	0.20	150.00	19.45	19.45

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	27.28

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	109.63

10.1 Party Ceilings				
Description	Construction		Kappa (kJ/m <sup>2</sup> K)	Area (m <sup>2</sup> )
Party Ceiling	Other		30.00	62.50

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### 11.0 Heat Loss Floors

Description	Type	Construction	U-Value (W/m²K)	Kappa (kJ/m²K)	Area (m²)
Floor over Class E	Exposed Floor - Solid	Suspended concrete floor, carpeted	0.12	75.00	25.05
Floor over Plant Room	Exposed Floor - Solid	Suspended concrete floor, carpeted	0.12	75.00	19.60
Floor over Bin Store	Exposed Floor - Solid	Suspended concrete floor, carpeted	0.12	75.00	17.85

### 12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Argon Filled	G-value	Frame Type	Frame Factor	U Value (W/m²K)
D4 BalcDoor ET14.1	Manufacture	Half Glazed Door	Triple glazed			0.53		0.62	0.85
D9 Balcony Door ET18	Manufacture	Half Glazed Door	Triple glazed			0.53		0.59	0.91
W16 Window ET17	Manufacture	Window	Triple glazed			0.53		0.78	0.92
W17 Window ET17.1	Manufacture	Window	Triple glazed			0.53		0.43	0.69
W18 Window ET19	Manufacture	Window	Triple glazed			0.52		0.77	1.02

### 13.0 Openings

Name	Opening Type	Location	Orientation	Curtain Type	Overhang Ratio	Wide Overhang	Width (m)	Height (m)	Count	Area (m²)	Curtain Closed
D4 Balc Door ET14.1	Half Glazed Door	[1] External Wall MAT 1 New	South East							2.48	
D9 Balcony Door ET18	Half Glazed Door	[1] External Wall MAT 1 New	North East							3.50	
W16 Window ET17	Window	[1] External Wall MAT 1 New	North East	None	0.00					2.05	
W17 Window ET17.1	Window	[1] External Wall MAT 1 New	South East	None	0.00					4.10	
W18 Window ET19	Window	[1] External Wall MAT 1 New	North East	None	0.00					6.12	

### 14.0 Conservatory

None

### 15.0 Draught Proofing

100 %

### 16.0 Draught Lobby

No

### 17.0 Thermal Bridging

Calculate Bridges

#### 17.1 List of Bridges

Source Type	Bridge Type	Length	Psi	Imported
Table K1 - Approved	E2 Other lintels (including other steel lintels)	8.14	0.300	No
Table K1 - Default	E4 Jamb	31.40	0.100	No
Table K1 - Default	E20 Exposed floor (normal)	18.84	0.320	No
Table K1 - Approved	E7 Party floor between dwellings (in blocks of flats)	18.84	0.070	No
Table K1 - Default	E7 Party floor between dwellings (in blocks of flats)	13.48	0.140	No
Table K1 - Default	E16 Corner (normal)	5.77	0.180	No
Table K1 - Default	E17 Corner (inverted – internal area greater than external area)	5.77	0.000	No
Table K1 - Default	E18 Party wall between dwellings	8.66	0.120	No
Table K1 - Default	E25 Staggered party wall between dwellings	2.89	0.120	No
Table K1 - Default	P3 Party wall - Intermediate floor between dwellings (in blocks of flats)	9.46	0.000	No
Table K1 - Default	P7 Party Wall - Exposed floor (normal)	9.46	0.160	No

Y-value 0.138 W/m²K

### 18.0 Pressure Testing

Yes

Designed AP<sub>50</sub> 4.50 m³/(h.m²) @ 50 Pa

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Property Tested ? Yes  
As Built AP<sub>50</sub> 3.51 m<sup>3</sup>/(h.m<sup>2</sup>) @ 50 Pa

### 19.0 Mechanical Ventilation

#### Summer Overheating

Windows open in hot weather Windows slightly open  
Cross ventilation possible Yes  
Night Ventilation No  
Air change rate 0.00

#### 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 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

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PCDF Controls	0
Sap Code	2205
Is MHS Pumped	in unheated space
Heat Emitter	Radiators
Flow Temperature	Normal (> 45°C)

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<b>25.0 Main Heating 2</b>	None
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Community Heating	None
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<b>28.0 Water Heating</b>	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

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<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	

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<b>31.0 Thermal Store</b>	None
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**Recommendations**

**Lower cost measures**

None

**Further measures to achieve even higher standards**

None