

BASIC COMPLIANCE REPORT

Calculation Type: New Build (As Built)

Property Reference	D2052-1			Issued on Date	24/02/2022
Assessment Reference	1 As built	Prop Type Ref	Semi detached house		
Property	4 Victory Street, MANCHESTER, M14 5AE				
SAP Rating	78 C	DER	25.25	TER	25.99
Environmental	80 C	% DER<TER	2.84		
CO ₂ Emissions (t/year)	1.86	DFEE	46.17	TFEE	53.21
General Requirements Compliance	Pass	% DFEE<TFEE	13.25		
Assessor Details	Mr. Neil Unsworth, Bridgewater Energy, Tel: 01942 888092, neil@bridgewaterenergy.co.uk			Assessor ID	5906-0001
Client					

SUMMARY FOR INPUT DATA FOR New Build (As Built)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	25.99	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	25.25	kgCO ₂ /m ²	Pass
	-0.74 (-2.8%)	kgCO ₂ /m ²	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	53.21	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DFEE)	46.17	kWh/m ² /yr	
	-7.0 (-13.2%)	kWh/m ² /yr	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.22 (max. 0.30)	0.22 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.17 (max. 0.25)	0.17 (max. 0.70)	Pass
Roof	0.11 (max. 0.20)	0.11 (max. 0.35)	Pass
Openings	1.38 (max. 2.00)	1.40 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals	5.45 (measured in this dwelling)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Room heaters with radiators or underfloor - Electric Panel, convector or radiant heaters	
Secondary heating system	None	

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5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.68 kWh/day Permitted by DBSCG 2.02	Pass
Primary pipework insulated	No primary pipework	

6 Controls

Space heating controls	Programmer and appliance thermostats	Pass
Hot water controls	Cylinderstat	Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
Minimum	75	%	Pass

8 Mechanical ventilation

Not applicable

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (West Pennines (England))	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North	3.99 m ² , No overhang	
Windows facing East	4.55 m ² , No overhang	
Windows facing West	8.06 m ² , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value		
Filled Cavity with Edge Sealing	0.00	W/m ² K	Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	5.45 (measured in this dwelling)	
Maximum	10.0	Pass

10 Key features

Party wall U-value	0.00	W/m ² K
Roof U-value	0.11	W/m ² K
Photovoltaic array	2.16	kW

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.