

BASIC COMPLIANCE REPORT

Calculation Type: New Build (As Built)

Property Reference	D2052-2	Issued on Date	24/02/2022
Assessment Reference	2 As built	Prop Type Ref	Semi detached house
Property	6 Victory Street, MANCHESTER, M14 5AE		
SAP Rating	79 C	DER	24.31
Environmental	81 B	TER	25.06
CO ₂ Emissions (t/year)	1.80	% DER<TER	2.98
General Requirements Compliance	Pass	DFEE	44.25
		TFEE	50.13
		% DFEE<TFEE	11.72
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)	25.06	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	24.31	kgCO ₂ /m ²	Pass
	-0.75 (-3.0%)	kgCO ₂ /m ²	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	50.13	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DFEE)	44.25	kWh/m ² /yr	
	-5.8 (-11.6%)	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	5.65 (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 East

4.55 m², No overhang

Windows facing South

3.99 m², No overhang

Windows facing West

8.06 m², 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/m²K

Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals

5.65 (measured in this dwelling)

Maximum

10.0

Pass

10 Key features

Party wall U-value

0.00

W/m²K

Roof U-value

0.11

W/m²K

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.