BASIC COMPLIANCE REPORT
Calculation Type: New Build (As Built)

Property Reference	30093-0002	**Issued on Date**	18/10/2022
Assessment Reference	001	**Prop Type Ref**	
Property	Elmtrees, Hanbury Road, Stoke Prior, BROMSGROVE, B60 4AF		

SAP Rating	84 B	**DER**	16.55	**TER**	28.55
Environmental	85 B	**% DER<TER**	42.03		
CO_2 Emissions (t/year)	1.62	**DFEE**	61.18	**TFEE**	65.62
General Requirements Compliance	Pass	**% DFEE<TFEE**	6.76		

Assessor Details	Mr. Erik Sullivan, Triskele Energy Assessors LLP, Tel: 03301138894, esullivan@triskele-energy.co.uk	**Assessor ID**	Y448-0001
Client			

SUMARY 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)	28.55	$kgCO_2/m^2$	
Dwelling Carbon Dioxide Emission Rate (DER)	16.55	$kgCO_2/m^2$	Pass
	-12.00 (-42.0%)	$kgCO_2/m^2$	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	65.62	$kWh/m^2/yr$	
Dwelling Fabric Energy Efficiency (DFEE)	61.18	$kWh/m^2/yr$	
	-4.4 (-6.7%)	$kWh/m^2/yr$	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	Pass
Floor	0.14 (max. 0.25)	0.14 (max. 0.70)	Pass
Roof	0.17 (max. 0.20)	0.20 (max. 0.35)	Pass
Openings	1.50 (max. 2.00)	1.52 (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	5.52 (measured in this dwelling)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Heat pump with radiators or underfloor - Electric Samsung Electronics AE080RXYDEG	
Secondary heating system	None	

5 Cylinder insulation

Hot water storage	Measured cylinder loss: 1.80 kWh/day Permitted by DBSCG 2.24		Pass
Primary pipework insulated	Yes		Pass

6 Controls

Space heating controls	Programmer and at least two room thermostats		Pass
Hot water controls	Cylinderstat		Pass
	Independent timer for DHW		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 (Midlands)	Slight		Pass

Based on:

Overshading	Average		
Windows facing North Windows facing South	5.16 m², No overhang 13.18 m², No overhang		
Air change rate	3.00 ach		
Blinds/curtains	None		

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	5.52 (measured in this dwelling)		
Maximum	10.0		Pass

10 Key features

None	N/A		

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