

Regulations Compliance Report

Technical Handbook 2010, Domestic, Section 6 assessed by program FSAP 2009 , Version: 1.4.0.52

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Project Information:

Assessed By: Marco Valori (STRO007212) **Building Type:** Semi-detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Site Reference : Plot 1 **Plot Reference:** PA047

Address : , Fife, KY11 4HT

Client Details:

Name: Mr Ron Beattie

Address :

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1 TER and DER

Fuel for main heating system: Grid electricity

Target Carbon Dioxide Emission Rate (TER) 25.43 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 13.80 kg/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.11 (max. 0.25)	0.11 (max. 0.70)	OK
Party wall	0.00 (max. 0.20)	-	OK
Floor	0.09 (max. 0.20)	0.09 (max. 0.70)	OK
Roof	0.11 (max. 0.18)	0.11 (max. 0.35)	OK
Openings	0.79 (max. 1.80)	0.80 (max. 3.30)	OK

3 Design air permeability

Design air permeability at 50 pascals 1.00

4 Heating efficiency

Main Heating system: No heating system present - electric

Efficiency 100 %

Minimum 100 %

Secondary heating system: None

5 Cylinder insulation

Hot water Storage: Nominal cylinder loss: 1.65 kWh/day **OK**

Permitted by Section 6.4: 2.30 kWh/day

Primary pipework insulated: No primary pipework

6 Controls

Space heating controls: None **OK**

Hot water controls: Cylinderstat **OK**

7 Low energy lights

Percentage of fixed lights with low-energy fittings 100.0%

Minimum 75.0% **OK**

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8 Mechanical ventilation

Continuous supply and extract system		
Specific fan power:	0.78	
Maximum	1.5	OK
MVHR efficiency:	91%	
Minimum	70%	OK

9 Summertime temperature

Overheating risk (East Scotland):	Not significant	OK
Based on:		
Overshading:	Average or unknown	
Windows facing: South	2.37m ² ,	
Windows facing: South	1.73m ² ,	
Windows facing: South	1.1m ² ,	
Windows facing: North	0.91m ² ,	
Windows facing: North	0.76m ² ,	
Windows facing: North	1.15m ² ,	
Windows facing: North	0.75m ² ,	
Ventilation rate:	4.00	
Blinds/curtains:	None	
	shutter closed 100% of daylight hours	

10 Key features

Thermal bridging	0.01
Design air permeability	1.0 m ³ /m ² h
Windows U-value	0.78 W/m ² K
Doors U-value	0.8 W/m ² K
Roofs U-value	0.11 W/m ² K
External Walls U-value	0.11 W/m ² K
Floors U-value	0.09 W/m ² K
Photovoltaic array	