

Regulations Compliance Report

Technical Handbook 2015, Domestic, Section 6 Summary of compliance with standard 6.1 , Version: 1.0.3.4
Printed on 29 April 2016 at 10:54:43

Project Information:

Assessed By: () **Building Type:** Detached Bungalow

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 67.5m²

Site Reference : Chapelton

Plot Reference: 816_15 (Plot 68 Chapelton)

Address :

Client Details:

Name:

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: Mains gas

Fuel factor: 1.00 (mains gas)

Target Carbon Dioxide Emission Rate (TER)

16.73 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER)

15.99 kg/m²

OK

2 Fabric U-values

Element

Average

Highest

External wall

0.20 (max. 0.22)

0.20 (max. 0.70)

OK

Floor

0.18 (max. 0.18)

0.18 (max. 0.70)

OK

Roof

0.15 (max. 0.15)

0.15 (max. 0.35)

OK

Openings

1.36 (max. 1.60)

1.46 (max. 3.30)

OK

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals

5.00 (design value)

4 Heating efficiency

Main Heating system:

Database: (rev 392, product index 017562):

Boiler systems with radiators or underfloor heating - mains gas

Brand name: Worcester

Model: Greenstar

Model qualifier: 42CDi Classic ErP

(Combi)

Efficiency 89.0 % SEDBUK2009

Minimum 88.0 %

OK

Secondary heating system:

None

5 Cylinder insulation

Hot water Storage:

No cylinder

6 Controls

Space heating controls

Programmer, room thermostat and TRVs

OK

Hot water controls:

No cylinder

Boiler interlock:

Yes

OK

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7 Low energy lights

Percentage of fixed lights with low-energy fittings	100.0%	
Minimum	75.0%	OK

8 Mechanical ventilation

Continuous extract system		
Specific fan power:	0.17	
Maximum	0.7	OK

9 Summertime temperature

Overheating risk (North East Scotland):	Not significant	OK
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Based on:

Overshading:	Average or unknown
Windows facing: East	4.21m ²
Windows facing: East	1.62m ²
Windows facing: West	1.62m ²
Windows facing: West	0.83m ²
Windows facing: West	0.83m ²
Windows facing: West	3.91m ²
Ventilation rate:	6.00
Blinds/curtains:	None
	Closed 100% of daylight hours

10 Key features

Thermal bridging	0.029 W/m ² K
Photovoltaic array	

DRAFT