

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.3.10

Printed on 11 August 2016 at 15:44:38

Project Information:

Assessed By: Leanne Brooksbank (STRO004241) **Building Type:** Semi-detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 81.42m²

Site Reference : Fir Trees

Plot Reference: Plot 5

Address : Plot 5 - House Type C, Fir Trees, Ferrybridge Road, Knottingley

Client Details:

Name: Noble Homes

Address : Perseverance Street, Castleford, West Yorkshire, WF10 1LD

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1a TER and DER

Fuel for main heating system: Mains gas

Fuel factor: 1.00 (mains gas)

Target Carbon Dioxide Emission Rate (TER) 18.78 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 17.94 kg/m² **OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 54.8 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 48.6 kWh/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.26 (max. 0.30)	0.26 (max. 0.70)	OK
Party wall	0.00 (max. 0.20)	-	OK
Floor	0.12 (max. 0.25)	0.12 (max. 0.70)	OK
Roof	0.09 (max. 0.20)	0.09 (max. 0.35)	OK
Openings	1.39 (max. 2.00)	1.40 (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 4.50 (design value)
Maximum 10.0 **OK**

4 Heating efficiency

Main Heating system: Database: (rev 396, product index 017045):
Boiler systems with radiators or underfloor heating - mains gas
Brand name: Ideal
Model: Logic Combi ES
Model qualifier: 35
(Combi)
Efficiency 88.9 % SEDBUK2009
Minimum 88.0 % **OK**

Secondary heating system: None

Regulations Compliance Report

5 Cylinder insulation

Hot water Storage: No cylinder

6 Controls

Space heating controls TTZC by plumbing and electrical services **OK**

Hot water controls: No cylinder

Boiler interlock: Yes **OK**

7 Low energy lights

Percentage of fixed lights with low-energy fittings 100.0%

Minimum 75.0% **OK**

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (East Pennines): Slight **OK**

Based on:

Overshading: Average or unknown

Windows facing: South East 5.29m²

Windows facing: South West 1.53m²

Windows facing: North West 8.04m²

Ventilation rate: 4.00

Blinds/curtains: None

Closed 100% of daylight hours

10 Key features

Roofs U-value 0.09 W/m²K

Party Walls U-value 0 W/m²K

Floors U-value 0.12 W/m²K

Predicted Energy Assessment



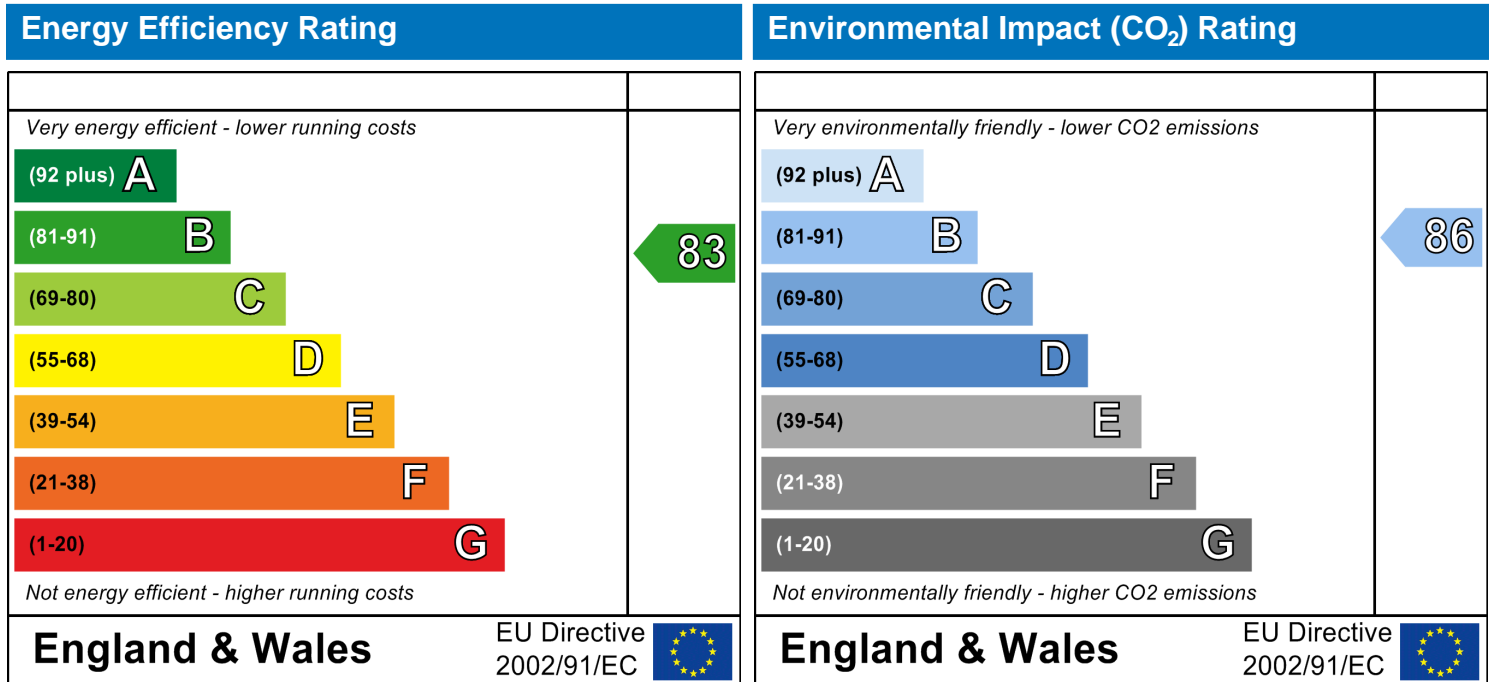
Plot 5 - House Type C
 Fir Trees
 Ferrybridge Road
 Knottingley

Dwelling type:
 Date of assessment:
 Produced by:
 Total floor area:

Semi-detached House
 01 August 2016
 Leanne Brooksbank
 81.42 m²

This is a Predicted Energy Assessment for a property which is not yet complete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, an Energy Performance Certificate is required providing information about the energy performance of the completed property.

Energy performance has been assessed using the SAP 2012 methodology and is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO₂) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.