

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.3.11

Printed on 08 September 2016 at 16:02:20

Project Information:

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

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 24.28m²

Site Reference : Chelmsford City Council, Civic Centre

Plot Reference: Chelmsford City Council, Civic Centre

Address :

Client Details:

Name: Space Projects UK Limited

Address :

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: Electricity

Fuel factor: 1.47 (electricity)

Target Carbon Dioxide Emission Rate (TER) 48.35 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 38.93 kg/m² **OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 78.5 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 77.5 kWh/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.20 (max. 0.30)	0.20 (max. 0.70)	OK
Floor	0.18 (max. 0.25)	0.18 (max. 0.70)	OK
Roof	0.17 (max. 0.20)	0.17 (max. 0.35)	OK
Openings	1.52 (max. 2.00)	1.80 (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)
Maximum 10.0 **OK**

4 Heating efficiency

Main Heating system: Database: (rev 397, product index 101862):
Heat pumps with warm air distribution - electric
Brand name:
Model:
Model qualifier:
()
Minimum 88.0 %

Secondary heating system: None

5 Cylinder insulation

Hot water Storage: No cylinder

N/A

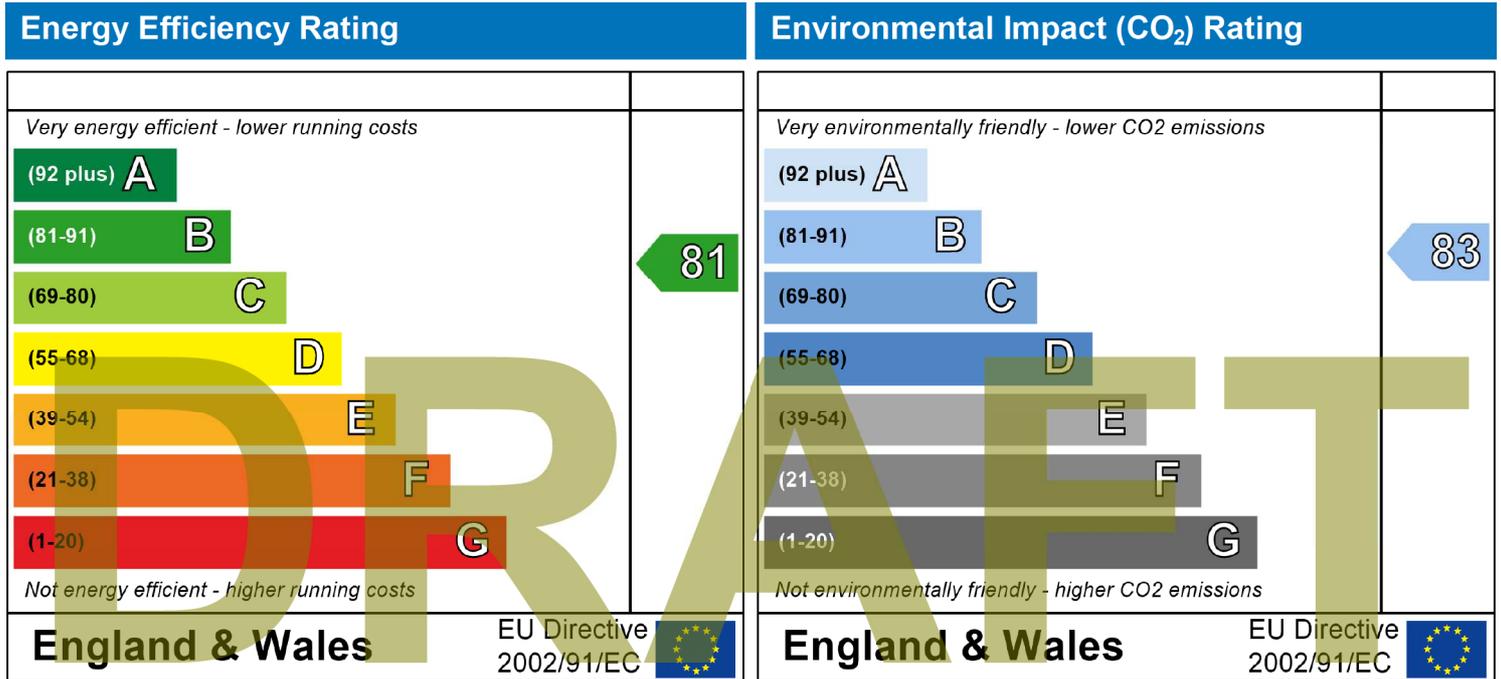
Predicted Energy Assessment



Dwelling type: Detached Bungalow
 Date of assessment: 07 September 2016
 Produced by: Stroma Certification
 Total floor area: 24.28 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.