

# Energy Performance Certificate

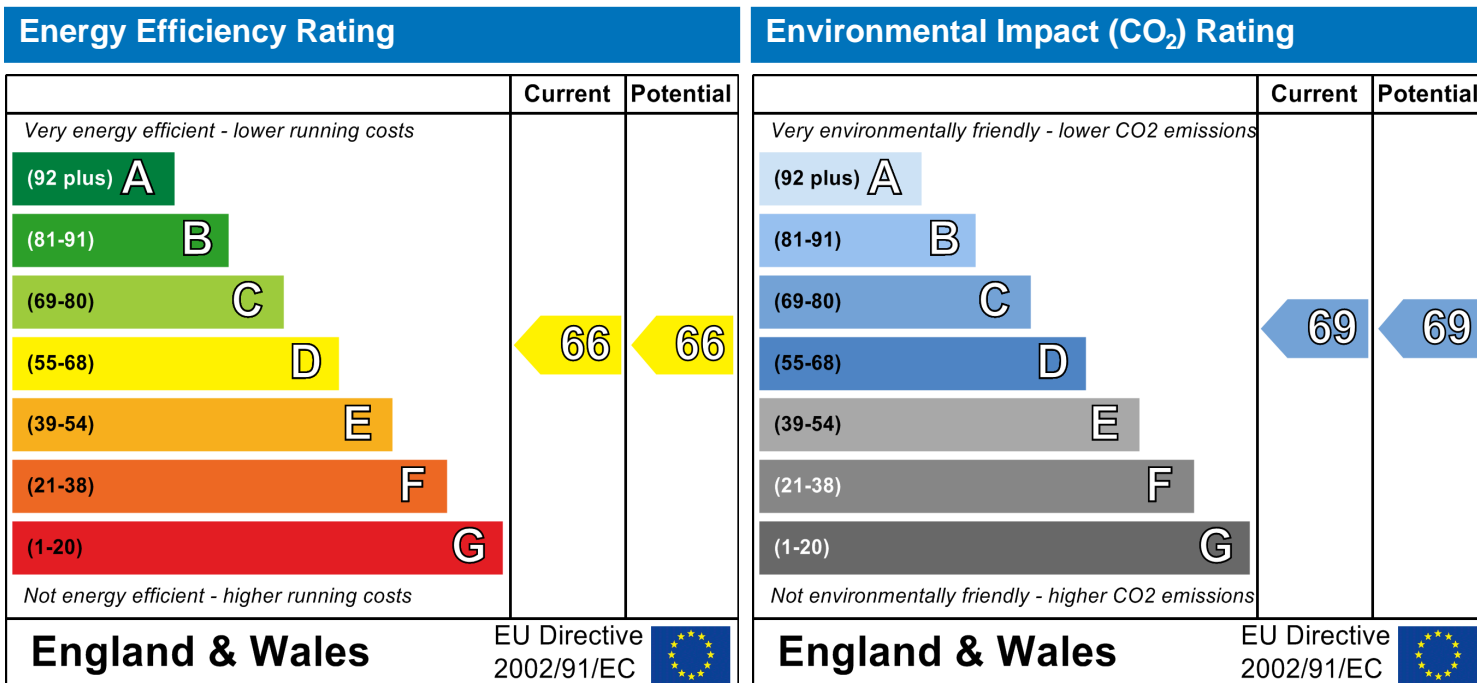


1 Chapel Mews  
Wellington Street  
New Whittington  
CHESTERFIELD  
S43 2BG

Dwelling type:  
Date of assessment:  
Date of certificate:  
Reference number:  
Type of assessment:  
Total floor area:

Semi-detached Ground floor Flat  
05 October 2011  
06 December 2011  
8091-7959-1039-6806-4093  
SAP, new dwelling  
74.6 m<sup>2</sup>

This home's performance 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 (CO<sub>2</sub>) 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 (CO<sub>2</sub>) emissions. The higher the rating the less impact it has on the environment.

## Estimated energy use, carbon dioxide (CO<sub>2</sub>) emissions and fuel costs of this home

	Current	Potential
Energy use	212 kWh/m <sup>2</sup> per year	209 kWh/m <sup>2</sup> per year
Carbon dioxide emissions	2.8 tonnes per year	2.8 tonnes per year
Lighting	£68 per year	£49 per year
Heating	£373 per year	£383 per year
Hot water	£233 per year	£233 per year

The figures in the table above have been provided to enable prospective buyers and tenants to compare the fuel costs and carbon emissions of one home with another. To enable this comparison the figures have been calculated using standardised running conditions (heating periods, room temperatures, etc.) that are the same for all homes, consequently they are unlikely to match an occupier's actual fuel bills and carbon emissions in practice. The figures do not include the impacts of the fuels used for cooking or running appliances, such as TV, fridge etc.; nor do they reflect the costs associated with service, maintenance or safety inspections. Always check the certificate date because fuel prices can change over time and energy saving recommendations will evolve.



Remember to look for the Energy Saving Trust Recommended logo when buying energy-efficient products. It's a quick and easy way to identify the most energy-efficient products on the market.

For advice on how to take action and to find out about offers available to help make your home more energy efficient, call 0800 512 012 or visit [www.energysavingtrust.org.uk](http://www.energysavingtrust.org.uk)

## About this document

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by Stroma Certification, to a scheme authorised by the Government. This certificate was produced using the SAP 2009 assessment methodology and has been produced under the Energy Performance of Buildings (Certificates and Inspections) (England and Wales) Regulations 2007 as amended. A copy of the certificate has been lodged on a national register.

Assessor's accreditation number: STRO003031  
Assessor's name: Brian Franklin  
Company name/trading name: Energy Assessors UK  
Address: 37 Abbey View Road, Norton Lees  
Sheffield, S8 8RE  
Phone number: 07730 587 114  
Fax number: 0  
E-mail address: brianfranklin@fsmail.net  
Related party disclosure: No related party

## If you have a complaint or wish to confirm that the certificate is genuine

Details of the assessor and the relevant accreditation scheme are as above. You can get contact details of the accreditation scheme from their website at [www.stroma.com](http://www.stroma.com) together with details of their procedures for confirming authenticity of a certificate and for making a complaint.

## About the building's performance ratings

The ratings on the certificate provide a measure of the building's overall energy efficiency and its environmental impact, calculated in accordance with a national methodology that takes into account factors such as insulation, heating and hot water systems, ventilation and fuels used. The average Energy Efficiency Rating for a dwelling in England and Wales is band E (rating 49).

Not all buildings are used in the same way, so energy ratings use 'standard occupancy' assumptions which may be different from the specific way you use your home. Different methods of calculation are used for homes and for other buildings. Details can be found at [www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd).

Buildings that are more energy efficient use less energy, save money and help protect the environment. A building with a rating of 100 would cost almost nothing to heat and light and would cause almost no carbon emissions. The potential ratings on the certificate describe how close this building could get to 100 if all the cost effective recommended improvements were implemented.

## About the impact of buildings on the environment

One of the biggest contributors to global warming is carbon dioxide. The way we use energy in buildings causes emissions of carbon. The energy we use for heating, lighting and power in homes produces over a quarter of the UK's carbon dioxide emissions and other buildings produce a further one-sixth.

The average household causes about 6 tonnes of carbon dioxide every year. Adopting the recommendations in this report can reduce emissions and protect the environment. You could reduce emissions even more by switching to renewable energy sources. In addition there are many simple everyday measures that will save money, improve comfort and reduce the impact on the environment. Some examples are given at the end of this report.

**Visit the Department for Communities and Local Government website at:**

**[www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd) to:**

- Find how to confirm the authenticity of an energy performance certificate
- Find how to make a complaint about a certificate or the assessor who produced it
- Learn more about the national register where this certificate has been lodged - the Department is the controller of the data on the register for Data Protection Act 1998 purposes
- Learn more about energy efficiency and reducing energy consumption

## Recommendations

The measures below are cost effective. The performance ratings after improvement listed below are cumulative, that is they assume the improvements have been installed in the order that they appear in the table. The indicative costs are representative for most properties but may not apply in a particular case.

Lower cost measures	Indicative Cost	Typical savings per year	Performance ratings after improvement	
			Energy efficiency	Environmental impact
1 Low energy lighting for all fixed outlets	£18	£10	D 66	C 69
Total		£10		

**Potential energy efficiency rating**

**D 66**

**Potential environmental impact (CO<sub>2</sub>) rating**

**C 69**

## Further measures to achieve even higher standards

None

Improvements to the energy efficiency and environmental impact ratings will usually be in step with each other. However, they can sometimes diverge because reduced energy costs are not always accompanied by a reduction in carbon dioxide (CO<sub>2</sub>) emissions.

## Summary of this home's energy performance related features

The following is an assessment of the key individual elements that have an impact on this home's performance rating. Each element is assessed by the national calculation methodology; 1 star means least efficient and 5 stars means most efficient.

Element	Description	Current Performance	
		Energy efficiency	Environmental
Walls	Average thermal transmittance 0.25 W/m <sup>2</sup> K	★★★★★	★★★★★
Roof	Average thermal transmittance 0 W/m <sup>2</sup> K	★★★★★	★★★★★
Floor	Average thermal transmittance 0.15 W/m <sup>2</sup> K	★★★★★	★★★★★
Windows	High performance glazing	★★★★★	★★★★★
Main heating	Room heaters, electric	-	-
Main heating controls	Programmer and appliance thermostats	★★★★☆	★★★★☆
Secondary heating	Room heaters, electric	-	-
Hot water	Electric immersion, standard tariff	-	-
Lighting	Low energy lighting in 60% of fixed outlets	★★★★☆	★★★★☆
Air tightness	Air permeability 4.5 m <sup>3</sup> /h.m <sup>2</sup> (as tested)	★★★★☆	★★★★☆

**Current energy efficiency rating**

**D 66**

**Current environmental impact (CO<sub>2</sub>) rating**

**C 69**

Thermal transmittance is a measure of the rate of heat loss through a building element; the lower the value the better the energy performance.

Air permeability is a measure of the air tightness of a building; the lower the value the better the air tightness.

## Low and zero carbon energy sources

None

## About the cost effective measures to improve this home's performance ratings

### Lower cost measures

These measures are relatively inexpensive to install and are worth tackling first. The indicative costs of measures included earlier in this EPC include the costs of professional installation. Some of the cost effective measures below may be installed as DIY projects which will reduce the cost. DIY is not always straightforward, and sometimes there are health and safety risks, so take advice before carrying out DIY improvements.

#### 1 Low energy lighting

Low energy light bulbs last up to 12 times longer than ordinary ones and reduce lighting costs.

## About the further measures to achieve even higher standards

Not applicable

## What can I do today?

Actions that will save money and reduce the impact of your home on the environment include:

- Ensure that you understand the dwelling and how its energy systems are intended to work so as to obtain the maximum benefit in terms of reducing energy use and CO2 emissions. The papers you are given by the builder and the warranty provider will help you in this.
- Check that your heating system thermostat is not set too high (in a home, 21°C in the living room is suggested) and use the timer to ensure you only heat the building when necessary.
- Turn off lights when not needed and do not leave appliances on standby. Remember not to leave chargers (e.g. for mobile phones) turned on when you are not using them.
- Make sure your hot water is not too hot - a cylinder thermostat need not normally be higher than 60°C.
- Close your curtains at night to reduce heat escaping through the windows.
- If you're not filling up the washing machine, tumble dryer or dishwasher, use the half-load or economy programme.