# **Energy Performance Certificate**



19, Chapel Street THATCHAM RG18 4JP Dwelling type: Ground-floor flat
Date of assessment: 03 September 2010
13 September 2010

Reference number: 0772-2897-6918-9800-0111 Type of assessment: RdSAP, existing dwelling

Total floor area: 46m<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.

Energy Efficiency Rating			
		Current	Potential
Very energy efficient - lower running costs			
(92 plus) <b>A</b>			
(81-91)			
(69-80)			
(55-68) D			61
(39-54)		_	
(21-38)	F	33	
(1-20)	G		
Not energy efficient - higher running costs			
England & Wales		U Directive 2002/91/EC	27 7 7

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.

Environmental Impact (CO <sub>2</sub> ) Rating			
	Current	Potential	
Very environmentally friendly - lower CO <sub>2</sub> emissions			
(92 plus) 🛕			
(81-91)			
(69-80)			
(55-68) D			
(39-54)		48	
(21-38) <b>F</b>	31		
(1-20) <b>G</b>			
Not environmentally friendly-higher CO <sub>2</sub> emissions			
England 9 Walso	U Directive 2002/91/EC	2 2	

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	779 kWh/m² per year	522 kWh/m² per year
Carbon dioxide emissions	5.4 tonnes per year	3.6 tonnes per year
Lighting	£46 per year	£28 per year
Heating	£661 per year	£383 per year
Hot water	£215 per year	£112 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.

To see how this home can achieve its potential rating please see the recommended measures.



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

This EPC and recommendations report may be given to the Energy Saving Trust to provide you with information on improving your dwelling's energy performance.

## **About this document**

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by Quidos, to a scheme authorised by the Government. This certificate was produced using the RdSAP 2005 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: QUID200585
Assessor's name: Carl Smith
Company name/trading name: GoodPower

Address: 107a Derwent Road, Thatcham, Newbury, Berkshire

**RG19 3UR** 

Phone number: 01635 877 774

Fax number:

E-mail address: carl@goodpower.co.uk

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.quidos.co.uk 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 46).

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.

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 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

Further information about Energy Performance Certificates can be found under Frequently Asked Questions at www.epcregister.com

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# Recommended measures to improve this home's energy performance

19, Chapel Street THATCHAM RG18 4JP Date of certificate: Reference number: 13 September 2010

0772-2897-6918-9800-0111

# Summary of this home's energy performance related features

The table below gives an assessment of the key individual elements that have an impact on this home's energy and environmental performance. Each element is assessed by the national calculation methodology against the following scale: Very poor / Poor / Average / Good / Very good. The assessment does not take into consideration the physical condition of any element. 'Assumed' means that the insulation could not be inspected and an assumption has been made in the methodology based on age and type of construction.

Element	Description	Current performance	
		Energy Efficiency	Environmental
Walls	Cavity wall, as built, no insulation (assumed)	Poor	Poor
Roof	(another dwelling above)	-	-
Floor	Solid, no insulation (assumed)	-	-
Windows	Fully double glazed	Average	Average
Main heating	Electric storage heaters	Poor	Very Poor
Main heating control	Manual charge control	Poor	Poor
Secondary heating	Room heaters, electric	-	-
Hot water	Electric immersion, off-peak	Very Poor	Poor
Lighting	Low energy lighting in 33% of fixed outlets	Average	Average
Current energy ef	ficiency rating	F 33	
Current environm	ental impact (CO <sub>2</sub> ) rating		F 31

Low and zero carbon energy sources

None

# 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.

L ( t- 0500)	Typical savings per year	Performance ratings after improvement		
Lower cost measures (up to £500)		Energy efficiency	Environmental impact	
1 Cavity wall insulation	£238	E 48	E 46	
2 Low energy lighting for all fixed outlets	£12	E 49	E 46	
Sub-total	£250			
Higher cost measures (over £500)				
3 Fan assisted storage heaters and dual immersion cylinder	£150	D 61	E 48	
Total	£400			
Potential energy efficiency rating		D 61		
Potential environmental impact (CO <sub>2</sub> ) ratin	ıg		E 48	

# 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.

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

If you are a tenant, before undertaking any work you should check the terms of your lease and obtain approval from your landlord if the lease either requires it, or makes no express provision for such work.

### Lower cost measures (typically up to £500 each)

These measures are relatively inexpensive to install and are worth tackling first. Some of them may be installed as DIY projects. DIY is not always straightforward, and sometimes there are health and safety risks, so take advice before carrying out DIY improvements.

### 1 Cavity wall insulation

Cavity wall insulation, to fill the gap between the inner and outer layers of external walls with an insulating material, reduces heat loss; this will improve levels of comfort, reduce energy use and lower fuel bills. The insulation material is pumped into the gap through small holes that are drilled into the outer walls, and the holes are made good afterwards. As specialist machinery is used to fill the cavity, a professional installation company should carry out this work, and they should carry out a thorough survey before commencing work to ensure that this type of insulation is suitable for this home. They should also provide a guarantee for the work and handle any building control issues. Further information about cavity wall insulation and details of local installers can be obtained from the National Insulation Association (www.nationalinsulationassociation.org.uk).

### 2 Low energy lighting

Replacement of traditional light bulbs with energy saving recommended ones will reduce lighting costs over the lifetime of the bulb, and they last up to 12 times longer than ordinary light bulbs. Also consider selecting low energy light fittings when redecorating; contact the Lighting Association for your nearest stockist of Domestic Energy Efficient Lighting Scheme fittings.

## Higher cost measures (typically over £500 each)

### 3 Fan assisted storage heaters

Modern storage heaters are smaller and easier to control than the older type in the property. Ask for a quotation for new, fan-assisted heaters with automatic charge control. A dual-immersion cylinder, which can be installed at the same time, will provide cheaper hot water than the system currently installed. As installations should be in accordance with the current regulations covering electrical wiring, only a qualified electrician should carry out the installation. Building Regulations apply to this work, so your local authority building control department should be informed, unless the installer is registered with a competent persons scheme<sup>1</sup>, and can therefore self-certify the work for Building Regulation compliance. Ask a qualified electrical heating engineer to explain the options, which might also include switching to other forms of electric heating.

## 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 CO<sub>2</sub> emissions.
- 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.
- Make sure your hot water is not too hot a cylinder thermostat need not normally be higher than 60°C.
- 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.
- 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.

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.

<sup>&</sup>lt;sup>1</sup> For information on approved competent persons schemes enter 'existing competent person schemes' into an internet search engine or contact your local Energy Saving Trust advice centre on 0800 512 012.