

Energy Performance Certificate

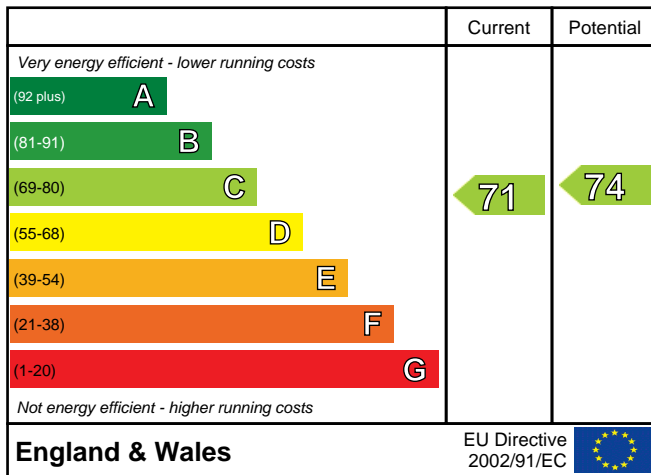


235a Rookery Road
Handsworth
BIRMINGHAM
B21 9PU

Dwelling type: Top-floor flat
Date of assessment: 26 September 2008
Date of certificate: 27 September 2008
Reference number: 8006-7365-8120-7126-2183
Total floor area: 23 m²

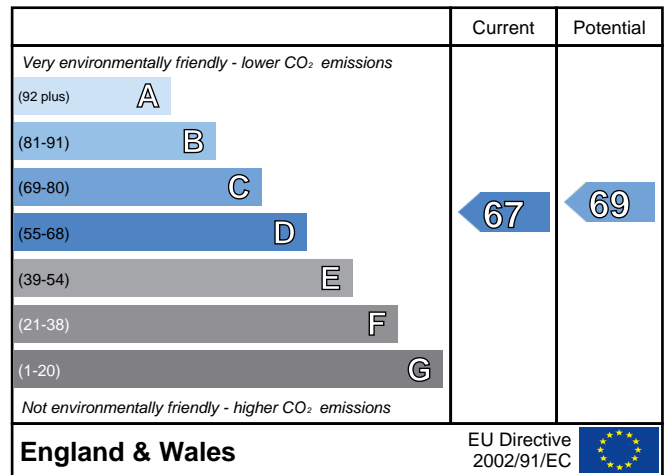
This home's performance is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



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 Rating (CO₂)



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.

Estimated energy use, carbon dioxide (CO₂) emissions and fuel costs of this home

	Current	Potential
Energy use	427 kWh/m ² per year	400 kWh/m ² per year
Carbon dioxide emissions	1.7 tonnes per year	1.6 tonnes per year
Lighting	£21 per year	£10 per year
Heating	£256 per year	£249 per year
Hot water	£46 per year	£46 per year

Based on standardised assumptions about occupancy, heating patterns and geographical location, the above table provides an indication of how much it will cost to provide lighting, heating and hot water to this home. The fuel costs only take into account the cost of fuel and not any associated service, maintenance or safety inspection. This certificate has been provided for comparative purposes only and enables one home to be compared with another. Always check the date the certificate was issued, because fuel prices can increase over time and energy saving recommendations will evolve.

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



The address and energy rating of the dwelling in this EPC may be given to EST to provide information on financial help for improving its energy performance.

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/myhome

About this document

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by BRE Certification, 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: BREC201437
Assessor's name: lakhbir singh
Company name/trading name: Lak Singh Energy Assessor
Address: 26, Europa Avenue, West Brumich,
West Midlands, B70 6TN
Phone number: 07868616136
Fax number:
E-mail address: satjus@blueyonder.co.uk
Related party disclosure:

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.breassessor.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 in 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 Government's 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.
- Learn more about energy efficiency and reducing energy consumption.

Recommended measures to improve this home's energy performance

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Reference number: 8006-7365-8120-7126-2183

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 against the following scale: Very poor / Poor / Average / Good / Very good.

Elements	Description	Current performance	
		Energy Efficiency	Environmental
Walls	Solid brick, as built, no insulation (assumed)	Very poor	Very poor
Roof	Pitched, 75 mm loft insulation	Average	Average
Floor	(other premises below)	-	-
Windows	Fully double glazed	Average	Average
Main heating	Boiler and radiators, mains gas	Good	Good
Main heating controls	Programmer, room thermostat and TRVs	Average	Average
Secondary heating	None	-	-
Hot water	From main system	Good	Good
Lighting	No low energy lighting	Very poor	Very poor
Current energy efficiency rating		C 71	
Current environmental impact (CO ₂) rating		D 67	

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.

Lower cost measures (up to £500)	Typical savings per year	Performance ratings after improvement	
		Energy efficiency	Environmental
1 Increase loft insulation to 270 mm	£9	C 72	C 69
2 Low energy lighting for all fixed outlets	£9	C 74	C 69
Total	£18		
Potential energy efficiency rating		C 74	
Potential environmental impact (CO₂) rating			C 69

Further measures to achieve even higher standards

The further measures listed below should be considered in addition to those already specified if aiming for the highest possible standards for this home. However you should check the conditions in any covenants, planning conditions, warranties or sale contracts.

3 50 mm internal or external wall insulation	£50	C 79	C 77
Enhanced energy efficiency rating		C 79	
Enhanced environmental impact (CO₂) rating			C 77

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 (CO₂) 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 Loft insulation

Loft insulation laid in the loft space or between roof rafters to a depth of at least 270 mm will significantly reduce heat loss through the roof; this will improve levels of comfort, reduce energy use and lower fuel bills. Insulation should not be placed below any cold water storage tank, any such tank should also be insulated on its sides and top, and there should be boarding on battens over the insulation to provide safe access between the loft hatch and the cold water tank. The insulation can be installed by professional contractors but also by a capable DIY enthusiast. Loose granules may be used instead of insulation quilt; this form of loft insulation can be blown into place and can be useful where access is difficult. The loft space must have adequate ventilation to prevent dampness; seek advice about this if unsure. Further information about loft insulation and details of local contractors 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.

About the further measures to achieve even higher standards

Further measures that could deliver even higher standards for this home. You should check the conditions in any covenants, planning conditions, warranties or sale contracts before undertaking any of these measures. 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.

3 Internal or external wall insulation

Solid wall insulation involves adding a layer of insulation to either the inside or the outside surface of the external walls, which reduces heat loss and lowers fuel bills. As it is more expensive than cavity wall insulation it is only recommended for walls without a cavity, or where for technical reasons a cavity cannot be filled. Internal insulation, known as dry-lining, is where a layer of insulation is fixed to the inside surface of external walls; this type of insulation is best applied when rooms require redecorating and can be installed by a competent DIY enthusiast. External solid wall insulation is the application of an insulant and a weather-protective finish to the outside of the wall. This may improve the look of the home, particularly where existing brickwork or rendering is poor, and will provide long-lasting weather protection. Further information can be obtained from the National Insulation Association (www.nationalinsulationassociation.org.uk). It should be noted that planning permission might be required.

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.
- 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.
- 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.

Reduced Data SAP 2005 Input Data Summary



235a Rookery Road
Handsworth
BIRMINGHAM
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Located in: England & Wales
Date of assessment: 26 September 2008
Date of certificate: 27 September 2008
UPRN: 2681031568
Reference number: 8006-7365-8120-7126-2183

Country and Language

England & Wales, ENGLISH

Property overview

Dwelling type:	Flat	Main property age:	1900 - 1929
Built form:	Mid Terrace	Perimeters and areas:	Internal
Habitable rooms:	3	Transaction Type:	Rental (Private)
Heated habitable rooms:	3		
Terrain Type:	Low Rise Urban or Suburban		

Main property construction

Lowest floor	area = 23.47	room height = 2.5	perimeter = 13.87
Wall construction	Solid brick with insulation as built		
Roof construction	Pitched (slates or tiles), access to loft, insulation at joists which is 75 mm thick		
Ground floor	Unknown unknown		

Windows

Area of windows:	Typical
Multiple glazing:	100% installed before 2002
Measured windows:	None

Shelter factors (flats and maisonettes only)

Floor number:	1	Flat corridor:	None
Floors in block:	2	Heat loss floor:	Partly heated below
Sheltered wall length:	m		

Space heating and controls

Database Reference No:	15842 - Heatline Capriz 28: gas:combi:condensing:wall mount:BF:fan:no pilot		
Heat emitter:	Radiators		
Boiler flue type:	Balanced flue		
Boiler fan type:	Fan assisted		
Main heating controls:	2106 - BOILER SYSTEM WITH RADIATORS OR UNDERFLOOR HEATING, Programmer, room thermostat and TRVs		
Secondary heating:	-		
Secondary heating fuel:	-		

Water heating and cylinder

Water heating:	901 - From main heating system		
Water heating fuel:	1 - Gas, mains gas		
Solar panel:	No	Immersion type:	
Cylinder present:			

Miscellaneous

Open fireplaces: 0
Ventilation type: Natural
Electricity meter: Single
Wind turbines: 0

Photovoltaic cells: 0%
Low energy lights: 0%
Main gas supply: Yes

Measures

Selected:
Loft insulation (A)
Low energy lights (E)
Solid wall insulation (Q)

Cancelled: