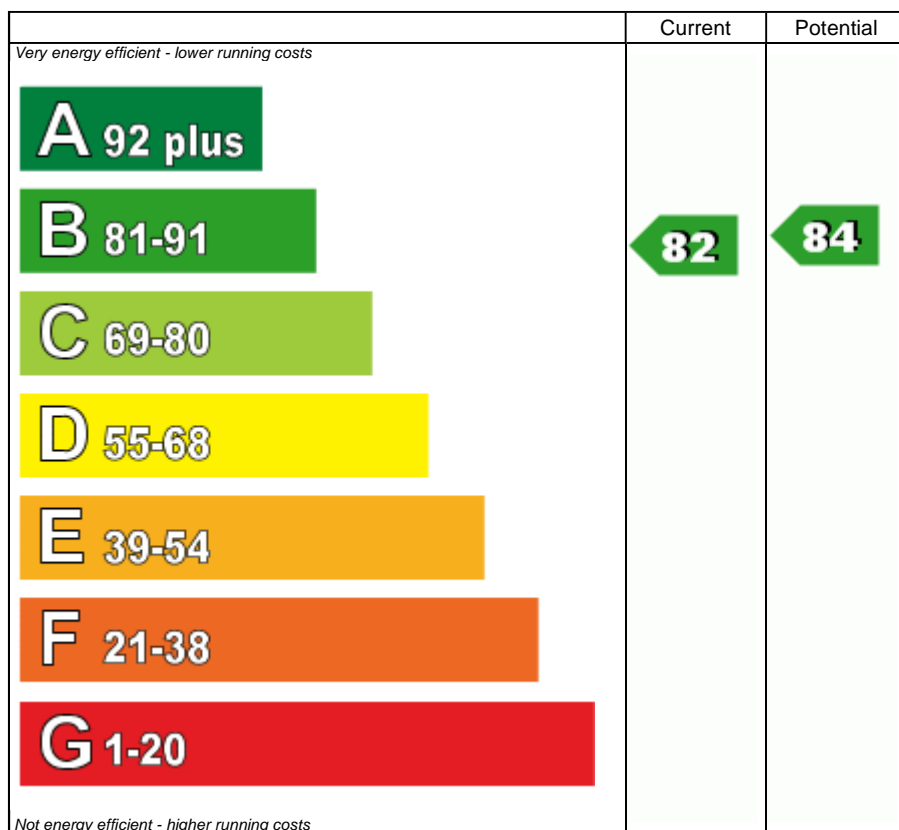


**Apartment 3.37**  
**The Arc**  
**2B Queens Road**  
**BELFAST**  
**BT3 9FD**

Date of assessment: 16 August 2009  
 Date of certificate: 16-Aug-2009  
 Reference number: 0560-2966-0483-0191-2971  
 Accreditation scheme: NHER  
 Assessor's name: Mr Paul Kearney  
 Assessor's accreditation number: NHER004413  
 Employer/trading name: EPC Providers  
 Employer/trading address: 6 Castle Crescent, Castledawson, Magherafelt, BT45 8RR

## Energy Efficiency Rating



## Technical information

**Main heating type and fuel:** Boiler and radiators, mains gas  
**Total floor area:** 73 m<sup>2</sup>  
**Approximate energy use:** 132 kWh/m<sup>2</sup> per year  
**Approximate CO<sub>2</sub> emissions:** 22 kg/m<sup>2</sup> per year  
**Dwelling type:** Top floor flat

## Benchmarks

Typical new build **83**  
 Average for Northern Ireland **50**

The approximate energy use and CO<sub>2</sub> emissions are per square metre of floor area based on fuel costs for the heating, ventilation, hot water and lighting systems. The rating can be compared to two benchmarks: one that would be attained by a typical new dwelling with oil heating constructed to the minimum standards of the building regulations current at the date of the assessment and the second is the average for the housing stock in Northern Ireland.

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

	Current	Potential
Energy use	132 kWh/m <sup>2</sup> per year	125 kWh/m <sup>2</sup> per year
Carbon dioxide emissions	1.6 tonnes per year	1.5 tonnes per year
Lighting	£61 per year	£36 per year
Heating	£244 per year	£246 per year
Hot water	£91 per year	£91 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.

## About this document

The Energy Performance Certificate for this dwelling was produced following an energy assessment undertaken by a qualified assessor, accredited by National Home Energy Rating, to a scheme authorised by the Government. This certificate was produced using the SAP 2005 assessment methodology and has been produced under the Energy Performance of Buildings (Certificates and Inspections) Regulations (Northern Ireland) 2008. A copy of the certificate has been lodged on a national register.

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

Details of the assessor and the relevant accreditation scheme are on the preceding page. You can get contact details of the accreditation scheme from their website at <http://www.nher.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 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 Northern Ireland is band E (rating 50).

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 describe how close this building could get to 100 if all the cost effective recommended improvements were implemented.



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.

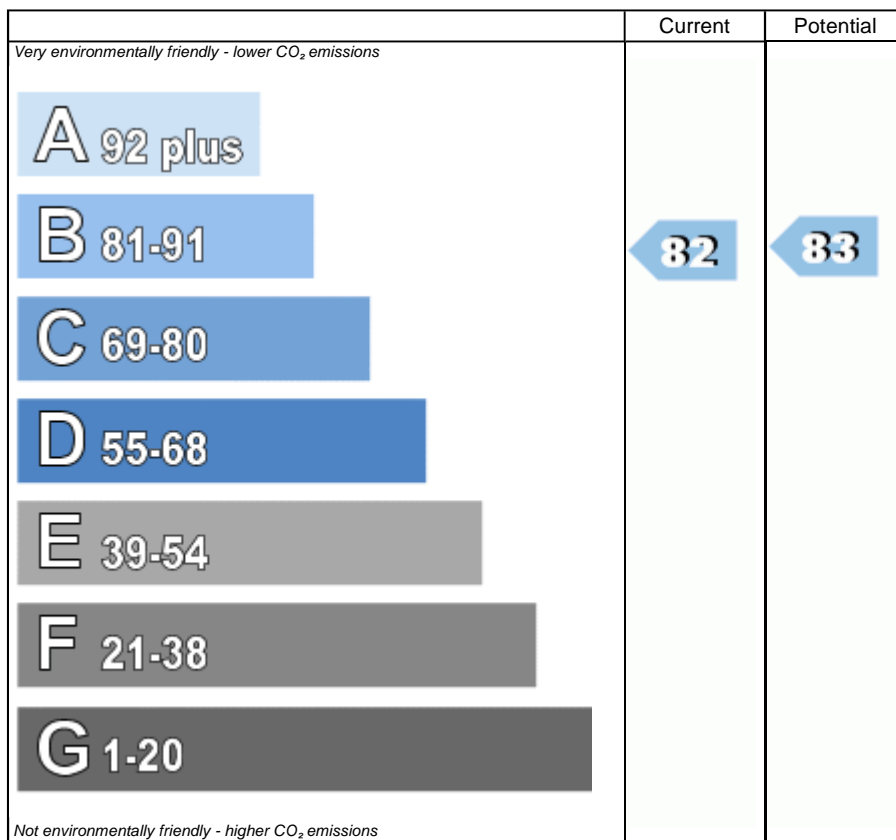
For advice on how to take action and to find out about offers available to help make your home more energy efficient call **0800 512 012** or visit [www.energysavingtrust.org.uk/myhome](http://www.energysavingtrust.org.uk/myhome)

**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.

**Environmental Impact (CO<sub>2</sub>) Rating**



**Visit the Government's website at [www.communities.gov.uk/epbd](http://www.communities.gov.uk/epbd) to:**

- Find out 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

Apartment 3.37  
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Date of certificate: 16-Aug-2009  
 Reference number: 0560-2966-0483-0191-2971

## 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: Compliant / Average / Good / Very good.

Element	Description	Current performance	
		Energy Efficiency	Environmental
Walls	Average thermal transmittance 0.45 W/m <sup>2</sup> K	Good	Good
Roof	Average thermal transmittance 0.22 W/m <sup>2</sup> K	Good	Good
Floor	(other premises below)	-	-
Windows	Fully double glazed	Good	Good
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	Low energy lighting in 32% of fixed outlets	Average	Average
Air tightness	(not tested)	-	-
<b>Current energy efficiency rating</b>		<b>B 82</b>	
<b>Current environmental impact (CO<sub>2</sub>) rating</b>		<b>B 82</b>	
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

## 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 improvements	
		Energy efficiency	Environmental impact
1 Low energy lighting for all fixed outlets	£23	B 84	B 83
Total	£23		

**Potential energy efficiency rating**

**B 84**

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

**B 83**

## 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

### 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 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

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. 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 that 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. Minimise the use of tumble dryers and dry clothes outdoors where possible.