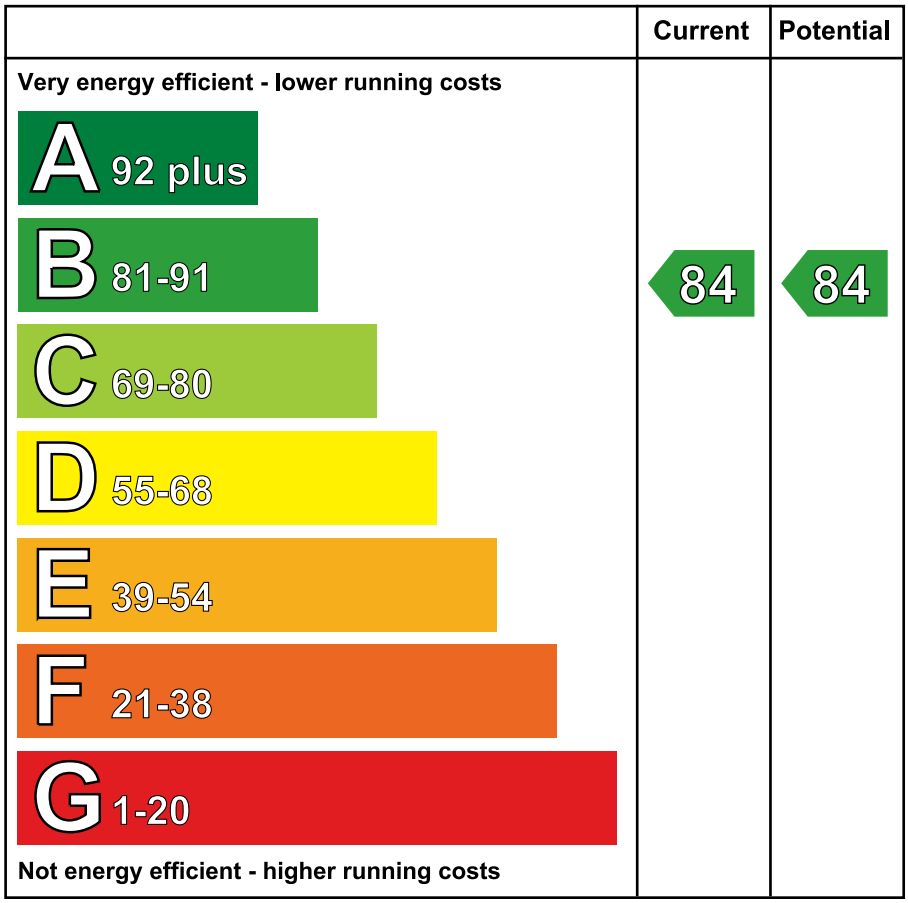
Energy Performance Certificate

Northern Ireland

10, Demiville Avenue
LISBURN
BT27 5RE

Date of assessment:	21 April 2016
Date of certificate:	21 April 2016
Reference number:	2799-7061-0384-6196-6950
Type of assessment:	SAP, new dwelling
Accreditation scheme:	Quidos
Assessor's name:	Mr Paul Bradley
Assessor's accreditation number:	QUID202024
Employer/Trading name:	Building Design Solutions
Employer/Trading address:	76 Main Street, Pomeroy, BT70 2QP
Related party disclosure:	No related party

Energy Efficiency Rating



Technical Information

Main heating type and fuel:	Boiler and radiators, mains gas
Total floor area:	380 m²
Primary energy use:	74 kWh/m² per year
Approximate CO_2 emissions:	14 kg/m² per year
Dwelling type:	Detached house

Benchmarks

Typical new build C79

Average for Northern Ireland D57

The primary energy use and CO_2 emissions are per square metre of floor area based on fuel use 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_2) emissions and fuel costs of this home

	Current	Potential
Primary energy use	74 kWh/m² per year	74 kWh/m² per year
Carbon dioxide emissions	5.4 tonnes per year	5.4 tonnes per year
Lighting	£145 per year	£145 per year
Heating	£1,081 per year	£1,081 per year
Hot water	£132 per year	£132 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.

About this document and the data in it

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 SAP 2009 assessment methodology and has been produced under the Energy Performance of Buildings (Certificates and Inspections) Regulations (Northern Ireland) 2008 (as amended). A copy of the certificate has been lodged on a national register. It will be publicly available and some of the underlying data may be shared with others for the purposes of research and compliance. The current property owner and/or tenant may opt out of having this information disclosed.

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 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 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 D (rating 57).

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.finance-ni.gov.uk

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.

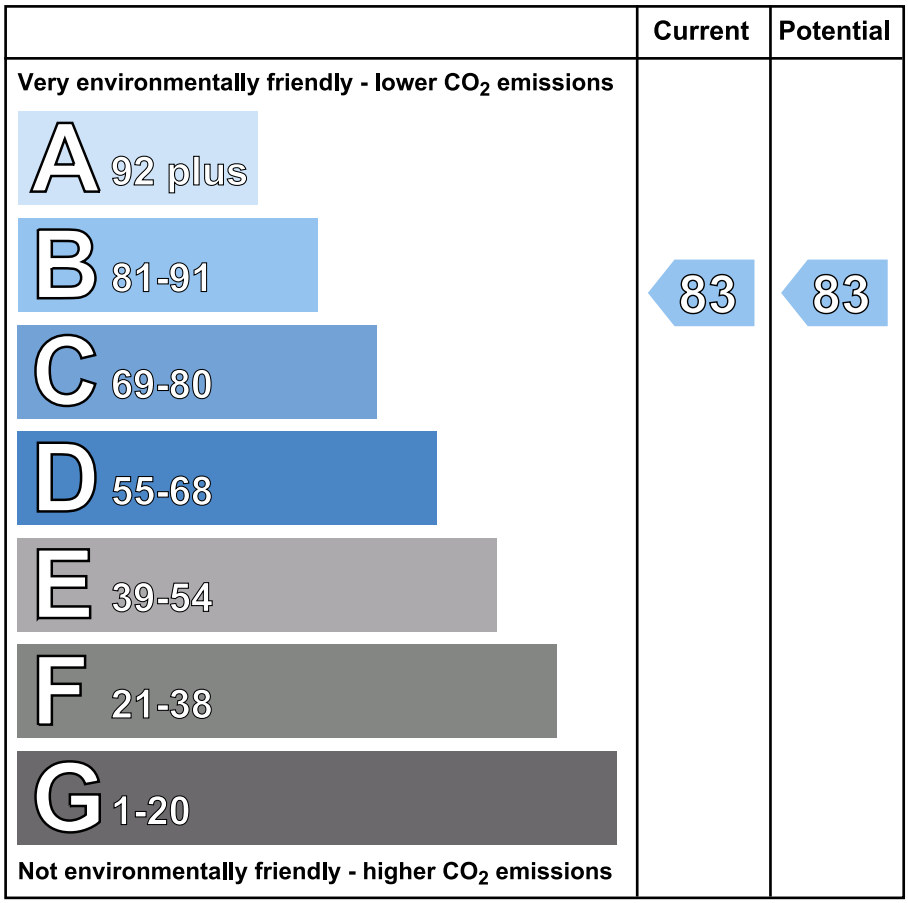
For further advice on home energy efficiency please see **www.nidirect.gov.uk/energy-wise**

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_2) Rating



Visit the Department of Finance website at www.finance-ni.gov.uk to:

- Learn more about the national register where this certificate has been lodged
- Learn more about energy efficiency and reducing energy consumption

Further information about Energy Performance Certificates can be found under Frequently Asked Questions at **www.finance-ni.gov.uk** and **www.niepcregister.com**

Recommended measures to improve this home's energy performance

10, Demiville Avenue
LISBURN
BT27 5RE

Date of certificate: 21 April 2016
Reference number: 2799-7061-0384-6196-6950

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 0.20 W/m²K	★★★★★	★★★★★
Roof	Average thermal transmittance 0.16 W/m²K	★★★★☆	★★★★☆
Floor	Average thermal transmittance 0.17 W/m²K	—	—
Windows	High performance glazing	★★★★★	★★★★★
Main heating	Boiler and radiators, mains gas	★★★★☆	★★★★☆
Main heating controls	Time and temperature zone control	★★★★★	★★★★★
Secondary heating	Room heaters, mains gas	—	—
Hot water	From main system	★★★★☆	★★★★☆
Lighting	Low energy lighting in 82% of fixed outlets	★★★★★	★★★★★
Air tightness	Air permeability 2.5 m³/h.m² (as tested)	★★★★★	★★★★★
Current energy efficiency rating		B 84	
Current environmental impact (CO_2) rating			B 83

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

None

Further measures to achieve even higher standards

None

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_2 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.
- 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. Minimise the use of tumble dryers and dry clothes outdoors where possible.