

# Energy Performance Certificate

One triangle, all angles covered

RESIDENTIAL / COMMERCIAL / PROPERTY & CONSTRUCTION

[www.shepherd.co.uk](http://www.shepherd.co.uk)



# Energy Performance Certificate (EPC)

# Scotland

Dwellings

**BORELAND OF BORGUE, KIRKCUDBRIGHT, DG6 4SX**

**Dwelling type:** Detached house  
**Date of assessment:** 22 April 2024  
**Date of certificate:** 23 April 2024  
**Total floor area:** 296 m<sup>2</sup>  
**Primary Energy Indicator:** 278 kWh/m<sup>2</sup>/year

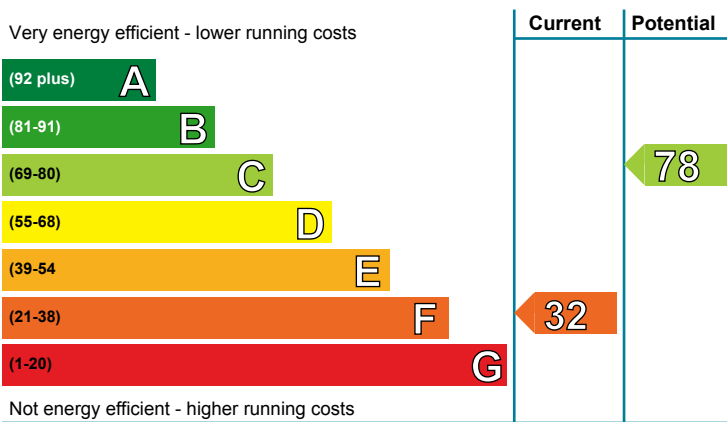
**Reference number:** 0122-2172-4443-2924-5551  
**Type of assessment:** RdSAP, existing dwelling  
**Approved Organisation:** Elmhurst  
**Main heating and fuel:** Boiler and radiators, oil

## You can use this document to:

- Compare current ratings of properties to see which are more energy efficient and environmentally friendly
- Find out how to save energy and money and also reduce CO<sub>2</sub> emissions by improving your home

<b>Estimated energy costs for your home for 3 years*</b>	<b>£17,694</b>	See your recommendations report for more information
<b>Over 3 years you could save*</b>	<b>£9,726</b>	

\* based upon the cost of energy for heating, hot water, lighting and ventilation, calculated using standard assumptions

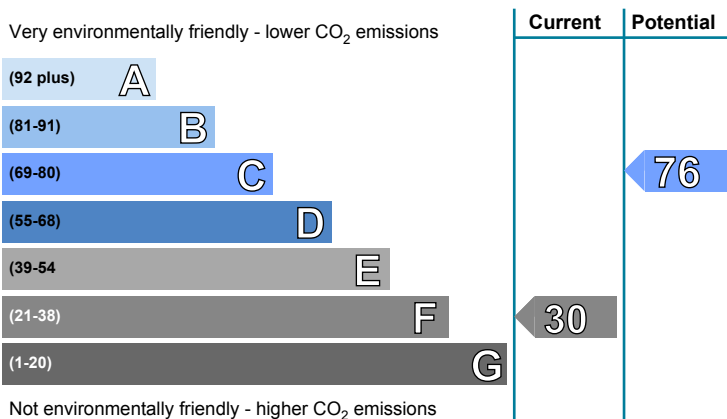


## Energy Efficiency Rating

This graph shows the current efficiency of your home, taking into account both energy efficiency and fuel costs. The higher this rating, the lower your fuel bills are likely to be.

Your current rating is **band F (32)**. The average rating for EPCs in Scotland is **band D (61)**.

The potential rating shows the effect of undertaking all of the improvement measures listed within your recommendations report.



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

This graph shows the effect of your home 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.

Your current rating is **band F (30)**. The average rating for EPCs in Scotland is **band D (59)**.

The potential rating shows the effect of undertaking all of the improvement measures listed within your recommendations report.

## Top actions you can take to save money and make your home more efficient

Recommended measures	Indicative cost	Typical savings over 3 years
1 Flat roof or sloping ceiling insulation	£850 - £1,500	£975.00
2 Internal or external wall insulation	£4,000 - £14,000	£4758.00
3 Floor insulation (suspended floor)	£800 - £1,200	£1014.00

A full list of recommended improvement measures for your home, together with more information on potential cost and savings and advice to help you carry out improvements can be found in your recommendations report.

To find out more about the recommended measures and other actions you could take today to stop wasting energy and money, visit [greenerscotland.org](http://greenerscotland.org) or contact Home Energy Scotland on 0808 808 2282.

**THIS PAGE IS THE ENERGY PERFORMANCE CERTIFICATE WHICH MUST BE AFFIXED TO THE DWELLING AND NOT BE REMOVED UNLESS IT IS REPLACED WITH AN UPDATED CERTIFICATE**

## Summary of the energy performance related features of this home

This table sets out the results of the survey which lists the current energy-related features of this home. Each element is assessed by the national calculation methodology; 1 star = very poor (least efficient), 2 stars = poor, 3 stars = average, 4 stars = good and 5 stars = very good (most efficient). The assessment does not take into consideration the condition of an element and how well it is working. '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	Energy Efficiency	Environmental
Walls	Granite or whinstone, as built, no insulation (assumed)	★★☆☆☆	★★☆☆☆
Roof	Pitched, 300 mm loft insulation Pitched, no insulation (assumed)	★★★★★ ★☆☆☆☆	★★★★★ ★☆☆☆☆
Floor	Suspended, no insulation (assumed) Solid, no insulation (assumed)	— —	— —
Windows	Mostly double glazing	★★★★☆☆	★★★★☆☆
Main heating	Boiler and radiators, oil	★★☆☆☆	★★★★☆☆
Main heating controls	Programmer, TRVs and bypass	★★★★☆☆	★★★★☆☆
Secondary heating	Room heaters, dual fuel (mineral and wood)	—	—
Hot water	From main system, no cylinder thermostat	★☆☆☆☆	★☆☆☆☆
Lighting	Low energy lighting in 77% of fixed outlets	★★★★★	★★★★★

## The energy efficiency rating of your home

Your Energy Efficiency Rating is calculated using the standard UK methodology, RdSAP. This calculates energy used for heating, hot water, lighting and ventilation and then applies fuel costs to that energy use to give an overall rating for your home. The rating is given on a scale of 1 to 100. Other than the cost of fuel for electrical appliances and for cooking, a building with a rating of 100 would cost almost nothing to run.

As we all use our homes in different ways, the energy rating is calculated using standard occupancy assumptions which may be different from the way you use it. The rating also uses national weather information to allow comparison between buildings in different parts of Scotland. However, to make information more relevant to your home, local weather data is used to calculate your energy use, CO<sub>2</sub> emissions, running costs and the savings possible from making improvements.


## The impact of your home on the environment

One of the biggest contributors to global warming is carbon dioxide. The energy we use for heating, lighting and power in our homes produces over a quarter of the UK's carbon dioxide emissions. Different fuels produce different amounts of carbon dioxide for every kilowatt hour (kWh) of energy used. The Environmental Impact Rating of your home is calculated by applying these 'carbon factors' for the fuels you use to your overall energy use.

The calculated emissions for your home are 75 kg CO<sub>2</sub>/m<sup>2</sup>/yr.

The average Scottish household produces about 6 tonnes of carbon dioxide every year. Based on this assessment, heating and lighting this home currently produces approximately 22 tonnes of carbon dioxide every year. Adopting recommendations in this report can reduce emissions and protect the environment. If you were to install all of these recommendations this could reduce emissions by 15.3 tonnes per year. You could reduce emissions even more by switching to renewable energy sources.

## Estimated energy costs for this home

	Current energy costs	Potential energy costs	Potential future savings
Heating	£15,615 over 3 years	£6,702 over 3 years	
Hot water	£1,209 over 3 years	£396 over 3 years	
Lighting	£870 over 3 years	£870 over 3 years	
<b>Totals</b>	<b>£17,694</b>	<b>£7,968</b>	

These figures show how much the average household would spend in this property for heating, lighting and hot water. This excludes energy use for running appliances such as TVs, computers and cookers, and the benefits of any electricity generated by this home (for example, from photovoltaic panels). The potential savings in energy costs show the effect of undertaking all of the recommended measures listed below.

## Recommendations for improvement

The measures below will improve the energy and environmental performance of this dwelling. The performance ratings after improvements listed below are cumulative; that is, they assume the improvements have been installed in the order that they appear in the table. Further information about the recommended measures and other simple actions to take today to save money is available from the Home Energy Scotland hotline which can be contacted on 0808 808 2282. Before carrying out work, make sure that the appropriate permissions are obtained, where necessary. This may include permission from a landlord (if you are a tenant) or the need to get a Building Warrant for certain types of work.

Recommended measures	Indicative cost	Typical saving per year	Rating after improvement	
			Energy	Environment
1 Flat roof or sloping ceiling insulation	£850 - £1,500	£325	F 35	F 33
2 Internal or external wall insulation	£4,000 - £14,000	£1586	E 53	E 48
3 Floor insulation (suspended floor)	£800 - £1,200	£338	D 57	E 52
4 Floor insulation (solid floor)	£4,000 - £6,000	£82	D 58	E 54
5 Replace boiler with new condensing boiler	£2,200 - £3,000	£844	C 69	D 67
6 Solar water heating	£4,000 - £6,000	£66	C 70	C 69
7 Wind turbine	£15,000 - £25,000	£1111	C 78	C 76

## Choosing the right improvement package

For free and impartial advice on choosing suitable measures for your property, contact the Home Energy Scotland hotline on 0808 808 2282 or go to [www.greenerscotland.org](http://www.greenerscotland.org).

## About the recommended measures to improve your home's performance rating

This section offers additional information and advice on the recommended improvement measures for your home

### 1 Flat roof or sloping ceiling insulation

Insulating a flat roof or sloping ceiling will significantly reduce heat loss through the roof; this will improve levels of comfort, reduce energy use and lower fuel bills. Insulation can be placed on top of the roof under the waterproof membrane and should particularly be considered when the waterproofing needs to be replaced. Further information about roof insulation and details of local contractors can be obtained from the National Insulation Association ([www.nationalinsulationassociation.org.uk](http://www.nationalinsulationassociation.org.uk)). Building regulations generally apply to this work so it is best to check with your local authority building standards department.

### 2 Internal or external wall insulation

Internal or external 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. 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](http://www.nationalinsulationassociation.org.uk)). It should be noted that a building warrant is required for the installation of external wall insulation. Planning permission may also be required and that building regulations apply to external insulation so it is best to check with your local authority on both issues.

### 3 Floor insulation (suspended floor)

Insulation of a floor will significantly reduce heat loss; this will improve levels of comfort, reduce energy use and lower fuel bills. Suspended floors can often be insulated from below but must have adequate ventilation to prevent dampness; seek advice about this if unsure. Further information about floor insulation is available from many sources including [www.energysavingtrust.org.uk/scotland/Insulation/Floor-insulation](http://www.energysavingtrust.org.uk/scotland/Insulation/Floor-insulation). Building regulations generally apply to this work so it is best to check with your local authority building standards department.

### 4 Floor insulation (solid floor)

Insulation of a floor will significantly reduce heat loss; this will improve levels of comfort, reduce energy use and lower fuel bills. Insulating solid floors can present challenges; insulation laid on top of existing solid floors may impact on existing doors and finishes whilst lifting of a solid floor to insert insulation below will require consideration of the potential effect on both structural stability and damp proofing. It is advised to seek advice from a Chartered Structural Engineer or a registered Architect about this if unsure. Further information about floor insulation is available from many sources including [www.energysavingtrust.org.uk/scotland/Insulation/Floor-insulation](http://www.energysavingtrust.org.uk/scotland/Insulation/Floor-insulation). Building regulations generally apply to this work and may also require a building warrant so it is best to check with your local authority building standards department.

### 5 Condensing boiler

A condensing boiler is capable of much higher efficiencies than other types of boiler, meaning it will burn less fuel to heat this property. This improvement is most appropriate when the existing central heating boiler needs repair or replacement, however there may be exceptional circumstances making this impractical. Condensing boilers need a drain for the condensate which limits their location; remember this when considering remodelling the room containing the existing boiler even if the latter is to be retained for the time being (for example a kitchen makeover). Building regulations generally apply to this work and a building warrant may be required, so it is best to check with your local authority building standards department and seek advice from a qualified heating engineer.

### 6 Solar water heating

A solar water heating panel, usually fixed to the roof, uses the sun to pre-heat the hot water supply. This can significantly reduce the demand on the heating system to provide hot water and hence save fuel and money. Planning permission might be required, building regulations generally apply to this work and a building warrant may be required, so it is best to check these with your local authority. You could be eligible for Renewable Heat Incentive payments which could appreciably increase the savings beyond those shown on your EPC, provided that both the product and the installer are certified by the Microgeneration Certification Scheme (or equivalent). Details of local MCS installers are available at [www.microgenerationcertification.org](http://www.microgenerationcertification.org).

## 7 Wind turbine

A wind turbine provides electricity from wind energy. This electricity is used throughout the home in the same way as the electricity purchased from an energy supplier. Wind turbines are not suitable for all properties. The system's effectiveness depends on local wind speeds and the presence of nearby obstructions, and a site survey should be undertaken by an accredited installer. Planning permission might be required and building regulations generally apply to this work and a building warrant may be required, so it is best to check these with your local authority. The assessment does not include the effect of any Feed-in Tariff which could appreciably increase the savings that are shown on this EPC for a wind turbine, provided that both the product and the installer are certified by the Microgeneration Certification Scheme (or equivalent). Details of local MCS installers are available at [www.microgenerationcertification.org](http://www.microgenerationcertification.org).

## Low and zero carbon energy sources

Low and zero carbon (LZC) energy sources are sources of energy that release either very little or no carbon dioxide into the atmosphere when they are used. Installing these sources may help reduce energy bills as well as cutting carbon.

### LZC energy sources present:

- Solar photovoltaics

## Your home's heat demand

In this section, you can see how much energy you might need to heat your home and provide hot water. These are estimates showing how an average household uses energy. These estimates may not reflect your actual energy use, which could be higher or lower. You might spend more money on heating and hot water if your house is less energy efficient. The table below shows the potential benefit of having your loft and walls insulated. Visit <https://energysavingtrust.org.uk/energy-at-home> for more information.

Heat demand	Existing dwelling	Impact of loft insulation	Impact of cavity wall insulation	Impact of solid wall insulation
Space heating (kWh per year)	47,745	N/A	N/A	(14,338)
Water heating (kWh per year)	3,746			

## Addendum

This dwelling has stone walls and may be exposed to wind driven rain and so requires further investigation to establish whether these walls are of cavity construction and to determine which type of wall insulation is best suited.

## About this document

This Recommendations Report and the accompanying Energy Performance Certificate are valid for a maximum of ten years. These documents cease to be valid where superseded by a more recent assessment of the same building carried out by a member of an Approved Organisation.

The Energy Performance Certificate and this Recommendations Report for this building were produced following an energy assessment undertaken by an assessor accredited by Elmhurst ([www.elmhurstenergy.co.uk](http://www.elmhurstenergy.co.uk)), an Approved Organisation Appointed by Scottish Ministers. The certificate has been produced under the Energy Performance of Buildings (Scotland) Regulations 2008 from data lodged to the Scottish EPC register. You can verify the validity of this document by visiting [www.scottishepcregister.org.uk](http://www.scottishepcregister.org.uk) and entering the report reference number (RRN) printed at the top of this page.

Assessor's name:	Mr. Taylor Hall
Assessor membership number:	EES/024206
Company name/trading name:	J & E Shepherd
Address:	18 Castle Street Dumfries DG1 1DR
Phone number:	01387 264333
Email address:	<a href="mailto:dumfries@shepherd.co.uk">dumfries@shepherd.co.uk</a>
Related party disclosure:	No related party

If you have any concerns regarding the content of this report or the service provided by your assessor you should in the first instance raise these matters with your assessor and with the Approved Organisation to which they belong. All Approved Organisations are required to publish their complaints and disciplinary procedures and details can be found online at the web address given above.

### Use of this energy performance information

Once lodged by your EPC assessor, this Energy Performance Certificate and Recommendations Report are available to view online at [www.scottishepcregister.org.uk](http://www.scottishepcregister.org.uk), with the facility to search for any single record by entering the property address. This gives everyone access to any current, valid EPC except where a property has a Green Deal Plan, in which case the report reference number (RRN) must first be provided. The energy performance data in these documents, together with other building information gathered during the assessment is held on the Scottish EPC Register and is available to authorised recipients, including organisations delivering energy efficiency and carbon reduction initiatives on behalf of the Scottish and UK governments. A range of data from all assessments undertaken in Scotland is also published periodically by the Scottish Government. Further information on these matters and on Energy Performance Certificates in general, can be found at [www.gov.scot/epc](http://www.gov.scot/epc).

## Advice and support to improve this property

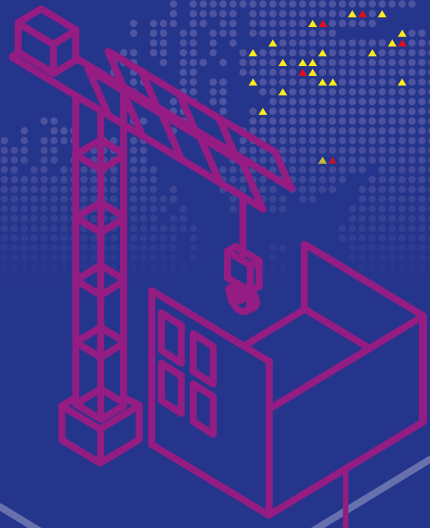
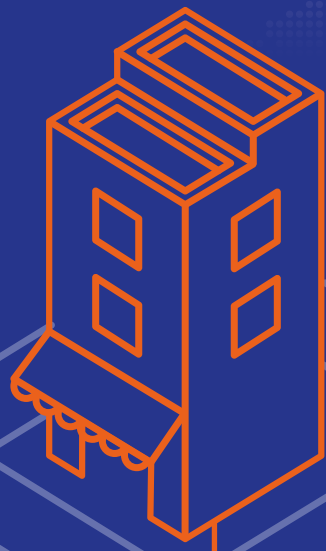
There is support available, which could help you carry out some of the improvements recommended for this property on page 3 and stop wasting energy and money. For more information, visit [greener-scotland.org](https://www.greener-scotland.org) or contact Home Energy Scotland on 0808 808 2282.

Home Energy Scotland's independent and expert advisors can offer free and impartial advice on all aspects of energy efficiency, renewable energy and more.

**HOMEENERGYSCOTLAND.ORG**  
**0808 808 2282**  
FUNDED BY THE SCOTTISH GOVERNMENT







## Residential

Home Report  
Mortgage & Re-Mortgage Valuation  
Home & Flat Buyer Report  
Energy Performance Certificate (EPC)  
Private Sale Valuation  
Inheritance Tax Valuation  
Capital Gains Tax Valuation  
Separation Valuation  
Driveby Valuation  
Desktop Valuation  
New Build, Development & Plot Valuation  
Extension & Alteration Valuation  
Portfolio Valuation  
Rental Valuation  
Expert Witness Report  
Council Tax Appeal  
Bespoke Condition Report

## Commercial

Commercial Valuation  
Commercial Agency  
Acquisitions & Disposals  
Commercial Lease Advisory  
Rent Reviews  
Asset Management  
Project Consultancy  
Development Appraisals  
Rating  
Commercial Property Auctions  
Property Management  
Professional Services  
Licensed Trade / Leisure

## Property & Construction

Quantity Surveying  
Building Surveying  
Project Management  
Dispute Resolution Support Services  
Principal Designer  
Clerk of Works  
Commercial EPC  
Fire Engineering  
Health & Safety Management  
Employer's Agent  
Energy Department  
Housing Services  
Development Monitoring  
Mediation Services

**Aberdeen**  
▲▲ 01224 202800

**Ayr**  
▲ 01292 267987

**Coatbridge**  
▲ 01236 436561

**Cumbernauld**  
▲ 01236 780000

**Dalkeith**  
▲ 0131 663 2780

**Dumbarton**  
▲ 01389 731682

**Dumfries**  
▲▲ 01387 264333

**Dundee**  
▲ 01382 200454  
▲ 01382 220699

**Dunfermline**  
▲ 01383 722337  
▲ 01383 731841

**East Kilbride**  
▲ 01355 248535

**Edinburgh**  
▲ 0131 2251234  
▲ 0131 557 9300

**Elgin**  
▲ 01343 553939

**Falkirk**  
▲ 01324 635 999

**Fraserburgh**  
▲ 01346 517456

**Galashiels**  
▲ 01896 750150

**Glasgow**  
▲▲ 0141 331 2807

**Glasgow South**  
▲ 0141 649 8020

**Glasgow West End**  
▲ 0141 353 2080

**Greenock**  
▲ 01475 730717

**Hamilton**  
▲ 01698 897548

**Inverness**  
▲▲ 01463 712239

**Kilmarnock**  
▲ 01563 520318

**Kirkcaldy**  
▲ 01592 205442

**Livingston**  
▲ 01506 416777

**Montrose**  
▲ 01674 676768

**Motherwell**  
▲ 01698 252229

**Musselburgh**  
▲▲ 0131 653 3456

**Oban**  
▲ 01631 707 800

**Paisley**  
▲ 0141 889 8334

**Perth**  
▲ 01738 638188  
▲ 01738 631631

**Peterhead**  
▲ 01779 470766

**St Andrews**  
▲ 01334 477773  
▲ 01334 476469

**Saltcoats**  
▲ 01294 464228

**Stirling**  
▲ 01786 450438  
▲ 01786 474476