# Energy Performance Certificate

Non-Domestic buildings and buildings other than dwellings

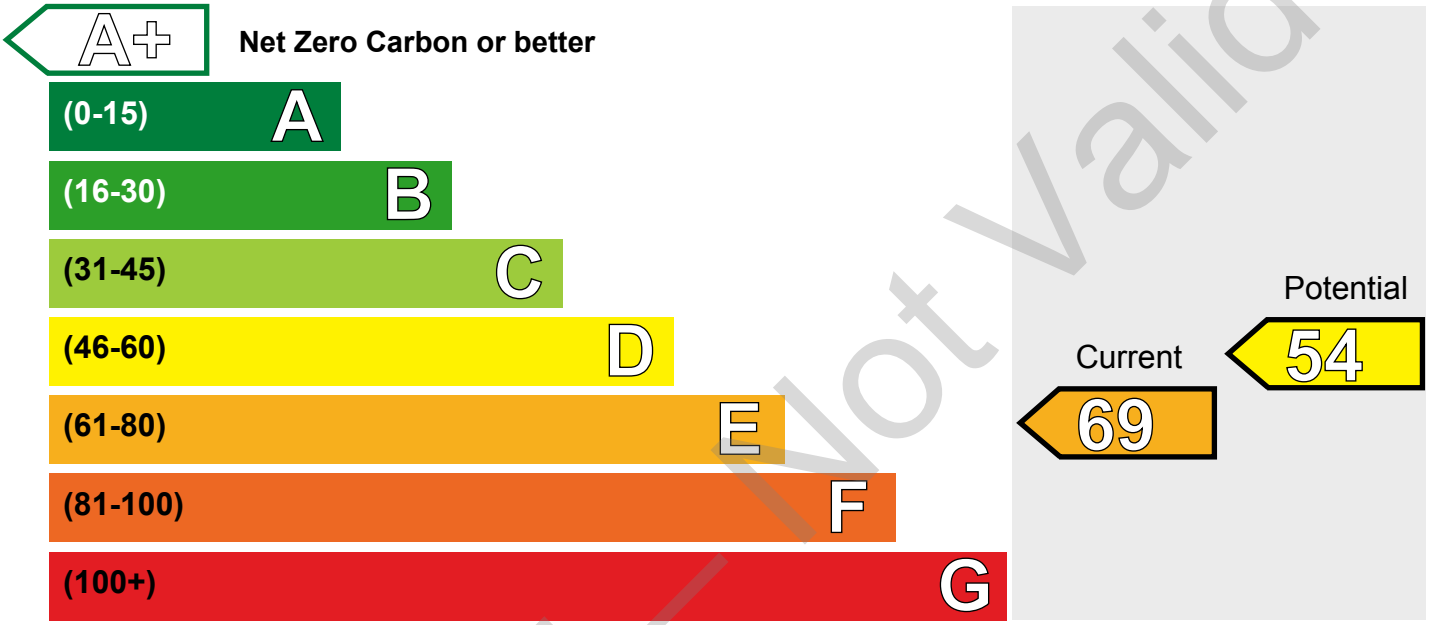
**Scotland**

**SHOP JEWELLERS HENDRY, 44 West Blackhall Street, Greenock, GREENOCK PA15 1UY**

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|---|---|---|---|
| **Date of assessment:** | 18 March 2013 | **Reference Number:** | 0976-1908-1307-1830-7000 |
| **Date of certificate:** | 04 April 2013 | **Building type:** | Retail/Financial |
| **Total conditioned area:** | 104.8m$^2$ | **Assessment Software:** | EPCgen, v4.1.e.5 |
| **Primary energy indicator:** | 389 kWh/m$^2$/yr | **Approved Organisation:** | Sterling Accreditation |

## Building Energy Performance Rating

**Excellent**




**Very Poor**

| | |
|---|---|
| **Approximate Energy Use:** | 133 kWh per m$^2$ per year |
| **Approximate Carbon Dioxide Emissions:** | 68.84 kg$CO_2$ per m$^2$ per year |

The building energy performance rating is a measure of the effect of a building on the environment in terms of carbon dioxide ($CO_2$) emissions. The better the rating, the less impact on the environment. The current rating is based upon an assessor's survey of the building. The potential rating shows the effect of undertaking all of the recommended measures listed below. The Recommendations Report which accompanies this certificate explains how this rating is calculated and gives further information on the performance of this building and how to improve it.

## Benchmark

**A building of this type built to current building regulations at the date of issue of this certificate would have a building energy performance rating of:** 22 B

## Recommendations for the cost-effective improvement of energy performance

1. Replace tungsten GLS lamps with CFLs: Payback period dependent on hours of use.
2. Consider replacing T8 lamps with retrofit T5 conversion kit.
3. Consider installing building mounted wind turbine(s).
4. Consider installing solar water heating.

There are additional improvement measures applicable to this building. Refer to the Recommendations Report.

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

Expired – Not Valid

## Background

This section provides additional information regarding the building and your energy assessment.

| | |
|---|---|
| Building type: | A1/A2 Retail and Financial/Professional services |
| Total useful floor area: | 105m$^2$ |
| Main heating fuel: | GridSuppliedElectricity |
| Building Environment: | HeatingandNaturalVentilation |
| Renewable energy source: | None |
| Electricity: | Grid supplied |

The Recommendations Report provides additional information in support of your Energy Performance Certificate. It was produced in line with the Government's approved calculation methodology and is based upon output from Property Tectonics Ltd, Lifespan SBEM, v4.1.e, SBEM, v4.1.e.5.

This calculates energy used in the heating, hot water provision, lighting and ventilation of your building. Different fuels produce different amounts of carbon dioxide for every kilowatt hour (kWh) of energy used. The calculation methodology therefore applies fuel emission factors to energy use for each fuel used to give an overall rating for your building. This assessment covers all fixed building services but excludes energy used in portable appliances, office equipment and for industrial processes.

As buildings can be used in different ways, energy use is calculated using standard occupancy assumptions which may be different from the way you use your building. The rating also uses national weather information to allow comparison between the performance of similar buildings in different parts of Scotland.

Further information on the assessment process and approved software tools can be found online at: www.scotland.gov.uk/epc.

## Recommendations for improvement

This section lists the improvement measures recommended on your Energy Performance Certificate and further action you can take to improve the performance of your building. These measures have been checked by your assessor as being appropriate for your building and are listed under four headings: short payback period, medium payback period, long payback period and other improvement measures.

The calculation tool has automatically produced a set of recommendations which are reviewed by your assessor to ensure that they are relevant to the building and its use. The assessor may add or remove recommendations and may also have commented on the recommendations based upon their professional knowledge and expertise. This may include inserting additional recommendations or measures under ‘other recommendations’ (see below).

Note that these recommendations do not include advice on matters relating to the operation and maintenance of your building as such cannot be identified or represented within the calculation process.

### Implementing improvements - legal disclaimer.

The advice provided in this Recommendations Report is intended to be for information only. Recipients of this report are advised to seek further professional advice before making any decision on how to improve the energy performance of the building.

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**Recommended measures with a short payback period (less than 3 years)**

| Recommendations (short payback) | Potential Impact |
|---|---|
| Replace tungsten GLS lamps with CFLs: Payback period dependent on hours of use. | LOW |
| Consider replacing T8 lamps with retrofit T5 conversion kit. | MEDIUM |

**Recommended measures with a medium payback period (3 to 7 years)**

| Recommendations (medium payback) | Potential Impact |
|---|---|

**Recommended measures with a long payback period (more than 7 years)**

| Recommendations (long payback) | Potential Impact |
|---|---|
| Consider installing building mounted wind turbine(s). | LOW |
| The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements. | LOW |
| Consider installing solar water heating. | LOW |
| Some walls have uninsulated cavities - introduce cavity wall insulation. | MEDIUM |
| Some windows have high U-values - consider installing secondary glazing. | MEDIUM |

## Other measures

This section lists other measures selected by your assessor based upon an understanding of the building and/or a valid existing Recommendations Report.

**Your assessor has not identified other measures for this building.**

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## Payback period:

Payback periods are based upon data provided by Good Practice Guides and Carbon Trust energy survey reports and are average figures calculated using a simple payback method. It is assumed that the source data is correct and accurate, using up to date information.

They should be considered indicative. The figures have been calculated as an average across a range of buildings and may therefore differ from the actual payback period for the building being assessed. It is recommended that the cost effectiveness and payback of each suggested measure be further investigated before making any decision on how to improve the energy efficiency of your building.

## Carbon Impact:

Each measure is assigned a low, medium or high potential impact on the energy efficiency of your building. This relates to their potential to reduce carbon dioxide emissions arising from energy used in your building. For automatically generated recommendations, the carbon impact is determined by the approved software but may be adjusted by your assessor based upon their knowledge of the building. The impact of 'other recommendations' is determined by the assessor.

## Comparative assessment - Feed-in Tariff

Eligibility for standard tariff for solar PV under the DECC Feed-in Tariff initiative is contingent on a minimum energy efficiency requirement being met. This requires a building to have an EPC band of D or better. Further information can be found at: www.decc.gov.uk/fits This requirement is based upon the means of determining EPC band which is used in England & Wales.

**If calculated using this process, but using Scottish climate data, your building would currently have an EPC band of A+ (and a rating of 0).**

## Requirements under section 63 of the Climate Change (Scotland) Act

From 1 September 2016, regulations require the assessment and improvement of existing non-domestic buildings with an area of more than 1,000 m². See www.gov.scot/section63 for information.

As this building does not exceed 1,000 m² in area, it is not currently subject to these regulations.

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## About this document

This 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.

Your Energy Performance Certificate and this Recommendations Report for this building were produced following an energy assessment undertaken by an assessor accredited by Sterling Accreditation (), 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 and entering the report reference number (RRN) printed at the top of this page.

**Assessor's name:** Peter Wilkinson
**Assessor membership number:** STER500114
**Company name/trading name:** Wilkinson & Co (Surveyors) Ltd
**Address:** Loaf Cottage, Main Street, Inverkip, Greenock, PA16 0AS
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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, 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.

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