

Window Energy Rating

When choosing windows for our homes we compare frame colour, shape and glazing, but poorly selected windows are a major source of energy loss so it is important that we get it right. By introducing Window Energy Ratings selecting energy efficient windows is as simple as A B C.

WHY SHOULD WINDOWS BE ENERGY RATED?

- As part of the Kyoto agreement the government is committed to help reduce CO₂ emissions by saving energy.
- Changes to building regulations - Part F - N. Ireland, Part L - ROI, Part L - England and Wales and Part J - Scotland will have an affect on the windows we choose for our homes.
- Window energy rating is a method of assessing the complete window and producing a single number to rate its overall energy efficiency.
- Window Energy Rating allows consumers to easily compare the energy efficiency of different windows.

WINDOW ENERGY RATING

The British Fenestration Rating Council (BFRC) is an independent body, which is leading the development and application of Window Energy Rating.

The role of the BFRC is:

- To provide a more effective measurement of the thermal efficiency of windows
- To ensure that the measurement is fair, accurate and credible
- To encourage the take-up of more thermally efficient windows

Calculating the Rating

As well as calculating the overall accurate 'U' value for a specific cation and design of window (frame and gaskets etc as well as the double glazed unit), Window Energy Rating also takes into account the significant benefit to be derived from solar gain along with the heat lost through air infiltration.

The rating is carried out by computer simulation of the product to European standards and the use of climate data and building models. This gives a single number that can be used to compare the energy performance of a window simply and quickly.

A - G Scale

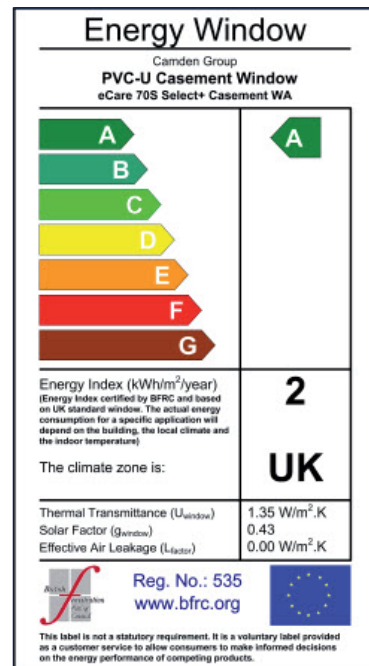
Windows are rated using the familiar A to G scale on the basis of their total energy efficiency, where an A-rated window is more energy efficient than a G-rated window. Consumers and specifiers can quickly and easily choose the most suitable window for their needs.

The window energy rating label is similar to the EU label used on fridges, washing machines and light bulbs.

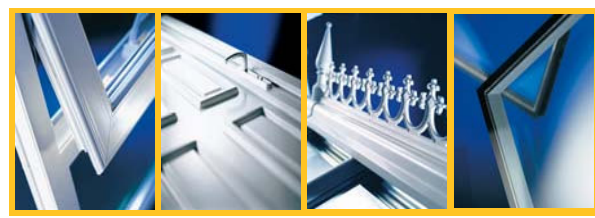
Limitations

*The BFRC Rating refers only to the standard BFRC sample size - this is the same sample size used in both the relevant European Standards and in Building Regulations.

*Only applicable to domestic windows



BFRC WINDOW Energy Rating Label Scale	kWh/m ² /year
A	0
B	-10 to 0
C	-20 to -10
D	-30 to -20
E	-50 to -30
F	-70 to -50
G	-



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Benefits of Window Energy Ratings

Benefits to suppliers and installers




- Suppliers and installers now have a clear method to identify products that improve energy efficiency and are more attractive to customers
- Competitive edge - standard method of comparing one window with another
- Sales to energy aware customer increase
- Building regulations - Window Energy Ratings can be used to demonstrate compliance with building regulations



Benefits to Consumers

- Energy Ratings allow customers to choose a product based on its independently tested energy performance
- Economic Advantages - Home owners save money of their home heating costs
- Environmental Impact - Helps homeowners do their bit for the environment

Energy Efficient windows may cost more initially but will not only improve comfort but will save energy and money for the life of the window. Over the life of a window the cost of heat lost is greater than the purchase cost. Choosing the most energy efficient window will save money and with ratings from A to C there is a window to suit everyone's budget.

Energy Window	
Camden Group PVC-U Casement Window eCare 70S Select+ Casement WA	
	A
Energy Index (kWh/m ² /year) <small>(Energy Index certified by BFRC and based on UK standard window. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature)</small>	2
The climate zone is:	UK
Thermal Transmittance (U _{window}) Solar Factor (g _{window}) Effective Air Leakage (L _{factor})	1.35 W/m ² .K 0.43 0.00 W/m ² .K
	Reg. No.: 535 www.bfrc.org 
<small>This label is not a statutory requirement. It is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.</small>	

Ask your sales representative about **eCare** Energy rated, Camden's range of energy efficient windows.