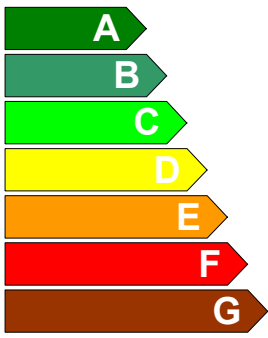






Window Energy Rating

The Future of Energy Efficient Windows

Energy Window	
	Window Ltd. XYZ 68/abc
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> The climate zone is:	 -14 UK
Thermal Transmittance (U-value) Solar Factor (g-value) Air Leakage (L-value)	1.7 W/m ² .K 0.50 0.10 m ³ /m ² /h
  	
<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>	

The BFRC Window Energy Label

The 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, government inspectors and agencies can quickly and easily see if the window meets the legal requirements and energy agencies can see if the window meets their criteria for support.

Calculating the Rating

The Window Energy rating assesses the whole window energy performance and covers the frame material, the frame design, the glass type and all the other components that make up the window. 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.

Industry working through Partnership

The BFRC is leading the development of the rating system, with the support of key companies and trade bodies representing the glazing industry, as well as the Energy Saving Trust. These organisations come together at the Energy Efficiency Partnership for Homes Glazing Strategy Group, which exists to promote energy efficient glazing in the domestic sector.

This document is provided by the Glazing Strategy Group of the Energy Efficiency Partnership for Homes. For further details of the Energy Saving Trust work please visit our Web Site at www.est.org.uk/est.

Energy Efficient Windows

Consumers, specifiers and legislators are increasingly focusing on the energy efficiency of building products. To respond to the challenge of raised expectations, the window industry must provide energy efficiency information that is easily understood and can be used to compare fenestration products. The simple U value does not fulfill these requirements because it only focuses on the heat loss from the window and takes no account of the solar heat gain that windows are responsible for and which can improve the overall energy efficiency of the house.

Window Energy Rating

In the past, selecting energy efficient windows has been difficult due to the lack of independent and validated information. There is a need for a method that is both easy to understand and independent. The British Fenestration Rating Council (BFRC), in conjunction with the UK glazing industry and European partners has designed a window rating system to meet this need for simple and accurate information. The BFRC provides third party certification for the total thermal performance of windows using a 'fair, accurate and credible' assessment scheme. Window energy rating:

- allows consumers to rapidly compare the energy efficiency of competing products.
- allows specifiers to select windows based on a validated performance figure.
- allows legislators and others to ensure that fitted windows meet the legal requirements.
- allows energy agencies to direct support to energy efficient products.
- provides a method to link thermal window performance to other thermal assessment systems.