

# BRITISH FENESTRATION RATING COUNCIL

The British Fenestration Rating Council is the UK's most trusted rating council for verifying the energy performance of windows and doors. In 1997, BFRC was founded to establish the window energy rating system for the UK, to raise standards and drive performance in the industry. Now the BFRC is Europe's No. 1 ratings council, with the most widely-used rating system.

Installing BFRC rated windows and doors can save you money on your energy bills and reduce carbon emissions from your home by making it more energy efficient. BFRC assesses the energy performance of windows and doors and gives them a rating between A++ and E. Genuine BFRC rated products are labelled with a small official sticker on the inside of the frame and sometimes a large rainbow label on the surface of the window or door.

The BFRC energy rating is a calculation that takes into account three factors : heat loss, solar gain and air leakage – all assessed in strict accordance with relevant EN and ISO standards.



- Solar gain refers to the heat travelling in through a window (positive).
- Thermal transmittance refers to the heat loss out of a window. (negative)
- Air leakage refers to the level of uncontrolled air flow out of a window which causes heat loss. (negative)

BFRC Rating Scale	BFRC Rating (kWh/m <sup>2</sup> /year)
<b>A</b> ++	20 or greater
<b>A</b> +	10 to 19
<b>A</b>	0 to 9
<b>B</b>	-1 to -10
<b>C</b>	-11 to -20
<b>D</b>	-21 to -30
<b>E</b>	-31 to -40

## U-VALUE TESTING

- Building regulations in the UK, specifically Document L, set standards for the energy performance of buildings, focusing on the conservation of fuel and power. The regulations establish maximum U-values for windows and doors to ensure that new buildings and renovations meet energy efficiency standards.
- These values reflect the UK government's commitment to improving the energy efficiency of buildings, reducing carbon emissions, and ensuring sustainable construction practices.