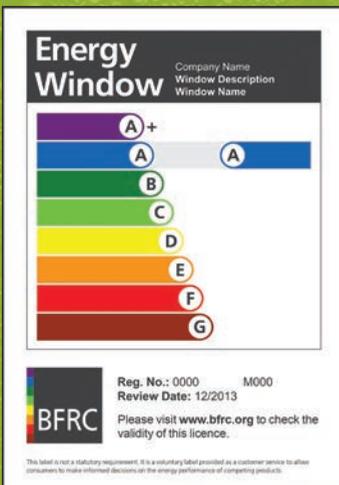


- UP TO 80 % OF ENERGY LOSS THROUGH A WINDOW OCCURS AT ITS EDGE
- WARM EDGE GLAZING IS UP TO 65 % WARMER AT THE EDGE THAN TRADITIONAL WINDOWS
- UP TO 70 % REDUCED CONDENSATION WITH WARM EDGE GLAZING
- UP TO 94 % REDUCTION IN HEAT LOSS WITH THERMALLY EFFICIENT WINDOWS

As of 1 October 2010 it is a requirement of Part 'L' of the UK Building Regulations for all domestic window installations to be either Window Energy Rated (WER) with grades 'A' to 'C', or to be self-certified with a whole window U-value of 1.6W/m<sup>2</sup>.K or better for replacement windows and 1.8W/m<sup>2</sup>.K for replacement doors.

Our insulated glass sealed units can achieve an 'A' rated Window Energy Rating and comply with all building regulations. They also meet with proposed 2013 regulation changes which suggest that a minimum of a 'B' rating will be required.



Look for this label on your window.

For further information, contact your local supplier:



**Thermobar**™  
Warm Edge Spacer Tube

For more information you can find us at:  
[www.thermobarwarmedge.com](http://www.thermobarwarmedge.com)

A superior technology designed to minimise  
energy loss through your windows



Superior Quality Warm Edge Glazing  
Achieves A+ and A\* Window Energy Ratings

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**ThermoBar**™  
Warm Edge Spacer Tube

## What is Warm Edge Technology?

The term 'Warm Edge' within double or triple glazing refers to the spacer used to separate the panes of glass. If the spacer material is less conductive than traditional aluminium spacer, it is termed warm edge. Non-metal spacers generally have a lower thermal conductivity value.



Thermal photograph showing standard cold edge windows - red signifies area of heat loss.



Warm Edge Windows showing virtually no heat loss.

# A SUPERIOR DOUBLE GLAZED UNIT

## **Low-emissivity (Low-E) coated glass**

forms the inner pane of a double glazing unit. The energy-saving coating lets the sun's rays through but reflects internal heating back into the property.

## **Air space filled with at least 90% inert gas** such as

Argon, Krypton or Xenon. These gases provide better insulation properties than air which contributes towards improving the window's energy efficiency. This unit must meet EN1279 part 3 manufacturing standards.

**A 3A molecular sieve or 'desiccant'** is an essential component of a superior double-glazed unit.

The primary role of a desiccant is to absorb moisture that is unavoidably trapped within the unit during manufacture to stop internal condensation.

However, it must also serve to selectively absorb the moisture which passes into the unit throughout its lifetime without affecting the balance of inert gas within the unit.

**Float glass**, or where increased solar gain is required **Low Iron glass**, is used for the outer pane of a double glazed unit.



**Thermobar™**  
Warm Edge Spacer Tube

Used to create an airspace within the sealed unit, **Thermobar warm edge spacer** tube is made from high performance engineering plastic with a gas diffusion barrier to minimise gas loss from the edge of the unit. The composition of Thermobar ensures that the unit is structurally sound while helping to reduce the heat loss at the edge of the glazing unit.

**Primary butyl**  
gas-tight seal (optional).

**Secondary sealant**  
bonds all components together.



Visit [www.thermobarwarmedge.com](http://www.thermobarwarmedge.com) for further information