

ULTRA SYSTEM

the all new WER certified window system

THE FUTURE OF
WINDOW SYSTEMS IS HERE



THE NEW BFRC THERMALLY APPROVED WINDOW SYSTEM IMPROVED THERMAL PERFORMANCE AS STANDARD

Our Commitment

We have always had a commitment to our customers and the environment, year after year we continue to re-evaluate the market and assess areas where we can see potential improvements. Further to the changes in the Building Regulations we have increased our range of WER certified windows even further offering greater choice and even more benefit. Detailed in this brochure is what goes into our WER certified window systems, but if there is any further information you require, please feel free to contact your local depot or representative direct.

Background

Housing is one of the major sources of energy use, and one of the main areas of energy loss is via the glazing. Windows are in place for a long time and efficiency gains achieved by fitting high performance windows are effective for the life of the product. By increasing the energy efficiency of glazed areas this will significantly reduce fuel bills, improve comfort and reduce greenhouse gas emissions for the life of the window installation.

What is the Window Energy Rating

The British Fenestration Rating Council (BFRC) is an independent, government-backed initiative set up to enhance the energy performance of buildings. BFRC in conjunction with the U.K. glazing industry and European partners has developed a Window Energy Rating to assess the energy performance of domestic windows. For consumer purposes, the WER Rating value is converted on a A to G scale, which is known to the public from electrical products such as fridges and washing machines.

Building Regulations

The WER Rating for windows is now included in the Building Regulation Part L with effect from October 2010. Beside the existing target U-Values for replacement windows, compliance to Part LIB can be shown using certain Window Energy Ratings. The standard for replacement windows in an existing dwelling should be an energy rating of 'C' or better with the standard for new windows in extensions also being a 'C' rating or better. For new dwellings the compliance with Part L is proven via a Target CO₂ Emission Rate, which needs to be met, without specific WER requirements for the windows.

Fittings	Standard for new fittings in extensions	Standard for replacement fittings in an existing dwelling
Window, roof window and roof light.	$U_w = 1.6 \text{ W/m}^2\text{k}$ or WER Rating = Band C or better	$U_w = 1.6 \text{ W/m}^2\text{k}$ or WER Rating = Band C or better



Certification mark

Energy Saving Trust

C Rated windows or better are included in the Energy Saving Trust scheme "Energy Saving Recommended". The "Energy Saving Recommended" certification mark was developed by the Energy Saving Trust to distinguish the most energy efficient products on the market. Only products that meet the strict requirements are endorsed and given the certification mark.

Achievable WER Ratings

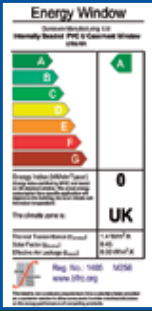
The Solar Gain, the Thermal Transmittance and the Air Leakage influence the WER rating. In the diagrams across you can find a general guidance on how we achieve our A, B and C ratings.

WITH A DEDICATED TEAM ALWAYS ON HAND WHY NOT GET IN TOUCH
TODAY TO SEE HOW WE CAN BENEFIT YOU AND YOUR CUSTOMERS.

ULTRA A

ULTRA B

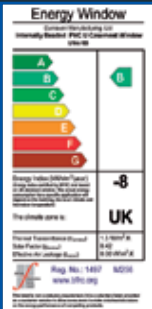
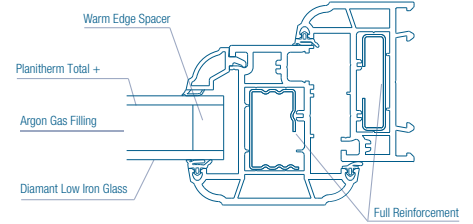
ULTRA C



A Rating

A rating is achieved with both the 60mm '6 Series' and 70mm '7 Series' by using 4mm Diamant Low Iron / 4mm Planitherm with a warm edge Swiss Spacer. There is no restriction on reinforcement.

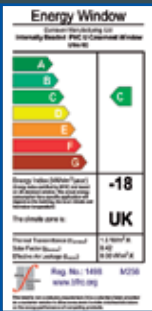
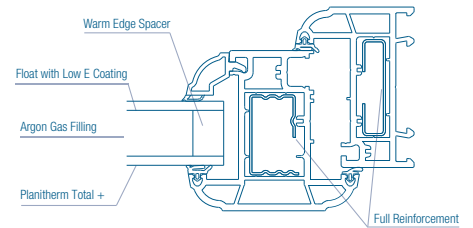
- Slim sight line profiles
- Standard or full reinforcement (to allow coloured options)
- Double glazing with 4mm Diamant Low Iron & Planitherm glazing
- Warm edge spacer



B Rating

B rating is achieved with both the 60mm '6 Series' and 70mm '7 Series' by using 4mm Clear Float / 4mm Planitherm with a warm edge spacer bar. There is no restriction on reinforcement.

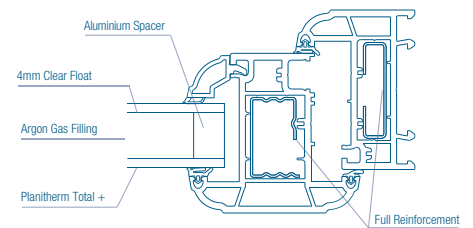
- Slim & standard sight line profiles
- Standard or full reinforcement (to allow coloured options)
- Double glazing with Argon gas filling and low E coating
- Warm edge spacer



C Rating

C rating is achieved with both the 60mm '6 Series' and 70mm '7 Series' by using 4mm Clear Float / 4mm Planitherm with an aluminium spacer bar. There is no restriction on reinforcement.

- Slim & standard sight line profiles
- Standard or full reinforcement (to allow coloured options)
- Double glazing with Argon gas filling and low E coating
- Aluminium spacer



Composition mm	Light Transmission %	Light Reflection %	Solar Factor %	U-value W/m²K
4-12-4 (air)	79%	12%	64%	1.7
4-16-4 (air)	79%	12%	64%	1.4
6-12-6 (air)	77%	11%	64%	1.7
6-16-6 (air)	77%	11%	64%	1.4
4-12-4 (90% argon)	79%	12%	64%	1.3
4-16-4 (90% argon)	79%	12%	64%	1.2
6-12-6 (90% argon)	77%	11%	64%	1.3
6-16-6 (90% argon)	77%	11%	64%	1.2
4-20-4 (90% argon)	77%	11%	64%	1.2

Accreditations

All of our products come with all the accreditations you expect from a leading manufacturer.



BS7412



BS7413



BS7950



PAS23/24

UNCOMPROMISING QUALITY & SERVICE

Sun offer unrivalled quality matched with over 30 years of expertise and dedication.

To find out more about any products listed here, or services we provide, feel free to give us a call.

We'll be more than happy to help.

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