

Duralite FAQs

Does Duralite meet the requirements of the new European standard?

Yes! IG units manufactured from Duralite meets the requirements of part 2 and part 3 as a single seal and dual seal IG unit.

What's the difference between single and dual seal and why differentiate?

Single seal offers a true 8mm seal depth around the perimeter, by applying Duralite inset from the edge of the glass this allows an additional sealant of 2 part or hot melt to be applied, further enhancing the durability.

Historically the UK has relied on a single seal component for the hermetic seal around an insulating glass unit. On the European mainland a dual seal system has been the standard for a number of years, and this enables Tremco illbruck to offer the same product to both markets.

Why does Duralite perform as a single seal?

Not all warm edge systems have a seal which offers a continuous actual moisture vapour barrier plus a sealant. Duralite has a full 8mm sealant depth, a longer path with a sealant that performs better than P.I.B. Also, as Duralite has only one joint this gives a continuous seal and a physical moisture barrier around the perimeter.

What sizes is Duralite available in?

All the range from 6.5mm, 8mm, 10mm, 12mm 14mm, 16mm, 18mm, and 20 mm, as standard.

What is the colour range of Duralite?

Duralite is available in both Black and Grey which when glazed, further enhances the appearance of all types of window frames. Please ask your local Tremco representative to supply you with a Duralite IG unit to insert into your own frames and see the difference.



Can you gas fill Duralite IG units?

Yes! Duralite has a final corner joint which is used as a filling point for the gas filling equipment. As stated above Duralite IG units also meet the requirements of EN1279 part 3 as a single seal.

Can you manufacture Georgian Bar IG units with Duralite?

Yes! Duralite has its own unique Georgian bar assembly system for manufacturing Georgian Bar IG units with ease and efficiency. Demonstrations are available from your local Tremco representative.

What window U-value does Duralite achieve?

In independent testing Duralite does improve your window U-value, also giving a warmer glass edge than other systems, but actual window U-value depends on a number of influences like glass type, frame material and design, gas filling, etc.

What Window Energy Rating can my windows achieve with Duralite?

In recent simulation results, Duralite has achieved an A rating when used in conjunction with low-e glass and argon as a double glazed IG unit. Results have shown Duralite to be a full 2 points higher than the nearest alternative. Duralite has also achieved a C rating without the use of Argon gas, eliminating the requirement for EN1279 part 3. The Window Energy Rating mainly depends on a number of factors including your window profile, glass type and gas. In independent testing a clear and 'hard coat' glass IG unit manufactured with Duralite has been proven to improve the window performance, taking a standard window from a 'D' rating to a 'C'. With additional improvements in the glass type and gas filling or costly improvements within the frame, it is possible to achieve a much higher rating.

Duralite FAQs

Tremco illbruck Limited
 Coupland Road
 Hindley Green, Wigan WN2 4HT UK
 Tel: 01942 251400
 Fax: 01942 251410
 Email: info@tremco-illbruck.co.uk
 Website: www.tremco-illbruck.com

What machinery do I need to make Duralite IG Units?

A basic line can be set up with a simple glass washer to provide clean and dry glass, a flat application table which holds the glass still while you apply the Duralite with the tool, a heated roller press and a ball table. A more comprehensive line can be designed to meet individual customer requirements.

How much is the machinery?

Depending on each individual company requirement a comprehensive productivity survey is carried out to enable a recommendation for exact machinery requirements to be given.

Do I have to buy a full line?

No, each company is different. You can start with a basic production line and expand it as your business grows. The modular machinery can be added to, creating a more comprehensive production line.

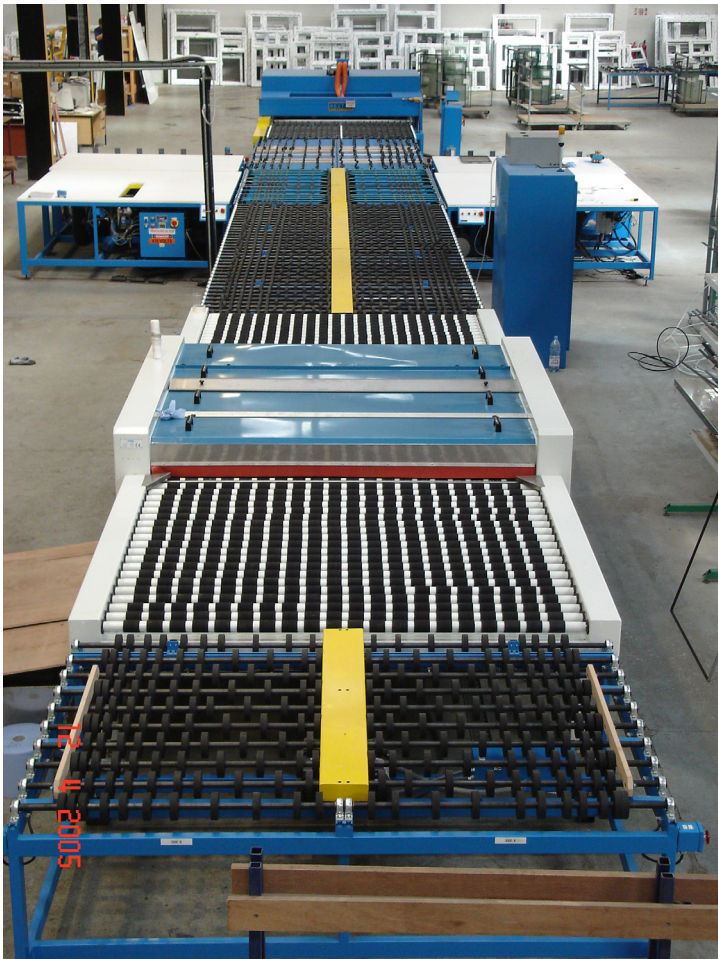
How much is Duralite?

Duralite is only a component part of a total insulating glass unit. When all aspects of manufacturing an IG unit are taken into consideration, such as machinery investment, productivity, labour, space and material costs, Duralite is the most cost effective method of manufacturing IG units. Contact Tremco illbruck for a free detailed cost analysis.

Does Tremco illbruck offer other IG sealants?

Tremco is the only IG sealant supplier that is able to offer you the "Complete Solution" to your individual IG requirements. Tremco's skilled and experienced technical representatives are available to meet with you and discuss Tremco illbruck's full and comprehensive range of IG sealants and warm edge spacer systems.

An Example of a Duralite Line



You can improve your 'Window Energy Ratings' with Duralite!

Energy Window	
Energy Windows Ltd. XYZ 68/abc	
	C
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>	-15
The climate zone is:	UK
Thermal Transmittance (U _{window})	1.5 W/m ² .K
Solar Factor (g _{window})	0.41 W/m ² .K
Effective Air Leakage (L _{factor})	0.02 W/m ² .K
	Reg. No.: XXX 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>	

BFRC Energy Window Label EXAMPLE¹

