

# TREFOREST GLASS

## Slim Low Sight Line Units

With a 10 year guarantee



Treforest Glass can now produce Slim Low Sight Line Units with a centre pane Uvalue of:-

**1.0 w/m<sup>2</sup>k using an 8mm Heritage Super Spacer®**

**1.2 w/m<sup>2</sup>k using a 6mm Heritage Super Spacer®**

**1.7 w/m<sup>2</sup>k using a 4mm Heritage Super Spacer®**

Treforest Glass have invested in the design and manufacture of these specialist slim, double glazed units that satisfy the requirements of a low sight line to be fitted in traditional timber frames.

### **Slim Low Sight Line Units will:-**

- Maintain the character of your home
- Keep your house warmer in winter
- Keep your house cooler in summer ➤ Help reduce noise pollution
- Help fight against internal condensation
- Comply with document L Building Regulations
- Help us all protect the environment by reducing carbon emissions

Treforest Glass is the trading name of Glass World (Cardiff) Limited

9/10 Upperboat Industrial Park, Pontypridd, CF37 5BP

Telephone: 01443 841313 Fax: 01443 841221

[www.treforestglass.co.uk](http://www.treforestglass.co.uk) [enquiries@treforestglass.co.uk](mailto:enquiries@treforestglass.co.uk)

Company Reg. No. 3020644 VAT No. 655587003

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## **Slim Low Sight Line Units:-**

- Can start from a minimum of 10mm thick
- Deliver a 8mm Sight Line (+/-1mm tolerance) to provide the Low Sight Line necessary for Traditional Timber Frames.
- Incorporate a wide range of products, from hand blown traditional glass to high specification specialist panes
- Are made with Heritage Super Spacer® – a high specification Edgetech, Super Spacer® – the best Warm Edge on the market (coming in White or Black)
- Can achieve a Centre Pane U-Value as low as 1.0 w/m<sup>2</sup>k with a 8mm cavity providing more than 77% less heat loss than from traditional single glazing
- Will improved acoustic performance compared with single glazing, assisted by the use of Super Spacer® and heavy inert gases

## **Technical Information**

### **Heritage Super Spacer®**

A High performance Warm Edge spacer designed especially for the restoration sector. A silicone structural foam spacer containing desiccant with Edgetech's unique dual

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seal system that twins an acrylic adhesive on the spacer edge, with a hot-melt butyl secondary sealant for outstanding gas retention.

## **Thermal Efficiency**

The thermal efficiency benefits of slim low sight line double glazing, far outweigh that of single glazing, achieving centre pane U-values of as low as 1.0 in a 8mm gasfilled cavity, depending on the choice of gas used. The reduction of heat loss through the glass is more than 77 per cent better than compared to single glazing.

## **Inert Heavy Gas**

The thermal conductivities of argon and krypton are much lower than air, meaning they are much more efficient insulators and are excellent at reducing U-values in sealed double glazed units.

## **Condensation**

Continual condensation can seriously deteriorate the lower sections of a timber frame – **Treforest Glass Slim Low Sight Line Double Glazed Units** will slow down the dew point being reached. The inner pane of the double glazed unit is warmer than the outside pane and our Warm Edge Super Spacer® spacer bar acts as a thermal break, stopping the cold reaching the inner pane of the unit. This helps maintain the room temperature when the heating is switched off at night and thereby reduces condensation and heat loss. The new problem of external condensation due to improved windows and glass can be reduced by applying our 'Clear-Shield' Easy Clean coating. As part of our manufacturing process we can apply the product which chemically bonds with the glass, sealing the crevices which are present in all flat glass. The Clear-Shield slows down dew forming on the exterior face, with its 'Teflon like' coating. Condensation simply runs off. Clear-Shield saves 50% on cleaning times and will protect the glass from dulling and becoming lifeless over time.

## **Listed Buildings**

It should be noted that Listed Buildings are exempt from regulations as far as the insulation value of glazing is concerned. Part L of the buildings regulations do not apply to any windows, where the single glazing is being replaced by **Treforest Glass Slim Low Sight Line Double Glazed Units**, for new or replacement windows in Listed Buildings.

## **Sash Windows**

Window weights for sash and case require adjustment when single glazing is replaced with Treforest Glass Slim Low Sight Line Double Glazed Units.

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Most sash windows today will have cast iron weights. A corresponding length of lead weight of approximately the same diameter or size as cast iron is around twice the weight of the cast iron. By replacing with lead ensures that the weight is the same length approximately and therefore the sashes will have the same amount of opening travel.

## Calculation

1mm thickness of glass (1 metre x 1 metre) 1m<sup>2</sup> weighs 2.5Kg.

## Example

Unit Construction 4mm Glass/4mm Cavity, gas/4mm Glass

Calculation 1000mm x 1000mm = 1m<sup>2</sup> x 8 (4 + 4) x 2.5kg = 20Kg.

To calculate the overall weight of a sash, including the frame, simply multiply the glass thickness x 2.67Kg as a rough guide.

**Treforest Glass** is a Company with a difference. There are lots of glass companies out there, but we go that extra mile to ensure our customers are armed with the best information, kept up to date with new products and changes to regulations, and will source any special requirements you may have. We produce quality products at reasonable prices, and our service is second to none.

For more information, please contact:

Debbie Wise, Sales Director - 07943655799 or 01443 841313 Ext. 205

Terry Potter, General Manager - 01443 841313 Ext. 203

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