

Slimlite Double Glazed Units, 10mm, 11mm, 12mm featured in Grand Designs. U Values UKAS Certified - BSEN1279 Certified. Unique 5mm perimeter seal depth - Georgian windows. From any distance looks like single glazing.

By using and maximising the latest technology it is possible to construct a double glazed unit with very small cavities or space between the glasses with a 5mm perimeter seal depth and selected insulating inert gas cavity to obtain U-Values to comply with Building Regulations and comparable or better than U-Values obtained by standard units with much wider cavities.

**Slimlite Double Glazed Units** are constructed with a 4mm clear outer pane with a selected cavity of 4mm, 5mm or 6.5mm, the wider cavity, increases the insulation, with selected cavity insulating inert gas, which only performs in smaller cavities, and inner pane of 4mm Low Emissivity glass.

The emissivity coating is on the inside face into the cavity and reflects the long wave radiation or heat back into the room. The warm edge technology perimeter spacer incorporated, ensures insignificant differential insulation value between edge and centre of glass.

Today it is necessary for double glazed units to comply with Building Regulations (noted below) in respect of U-Values which are slightly different between Scotland and England. **Slimlite**

**Double Glazed Units**

can comply with both these regulations as noted.

**Construction (BS EN 1279 Part 2 Compliant)**

4mm Low E/ Cavity, gas/ 3 or 4mm clear float or reproduction crown sheet

Slimlite plus (Low Emissivity)

3.0mm Cavity U-Value 2.1

4.0mm cavity U-Value 1.9

5.0mm cavity U-Value 1.7

6.0mm cavity U-Value 1.5

Window weights for sash and case require adjustment when **Slimlite** or any double glazed units are fitted to the sashes, which approximately doubles the weight, and can be calculated as noted below. The best weights are extruded lead weights with a centre hole for rope, for easy adjustment and cutting to any length.

Most existing sash and case 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 sash including the frame multiply the glass thickness x 2.67Kg as a rough guide.