Hg
Histoglass

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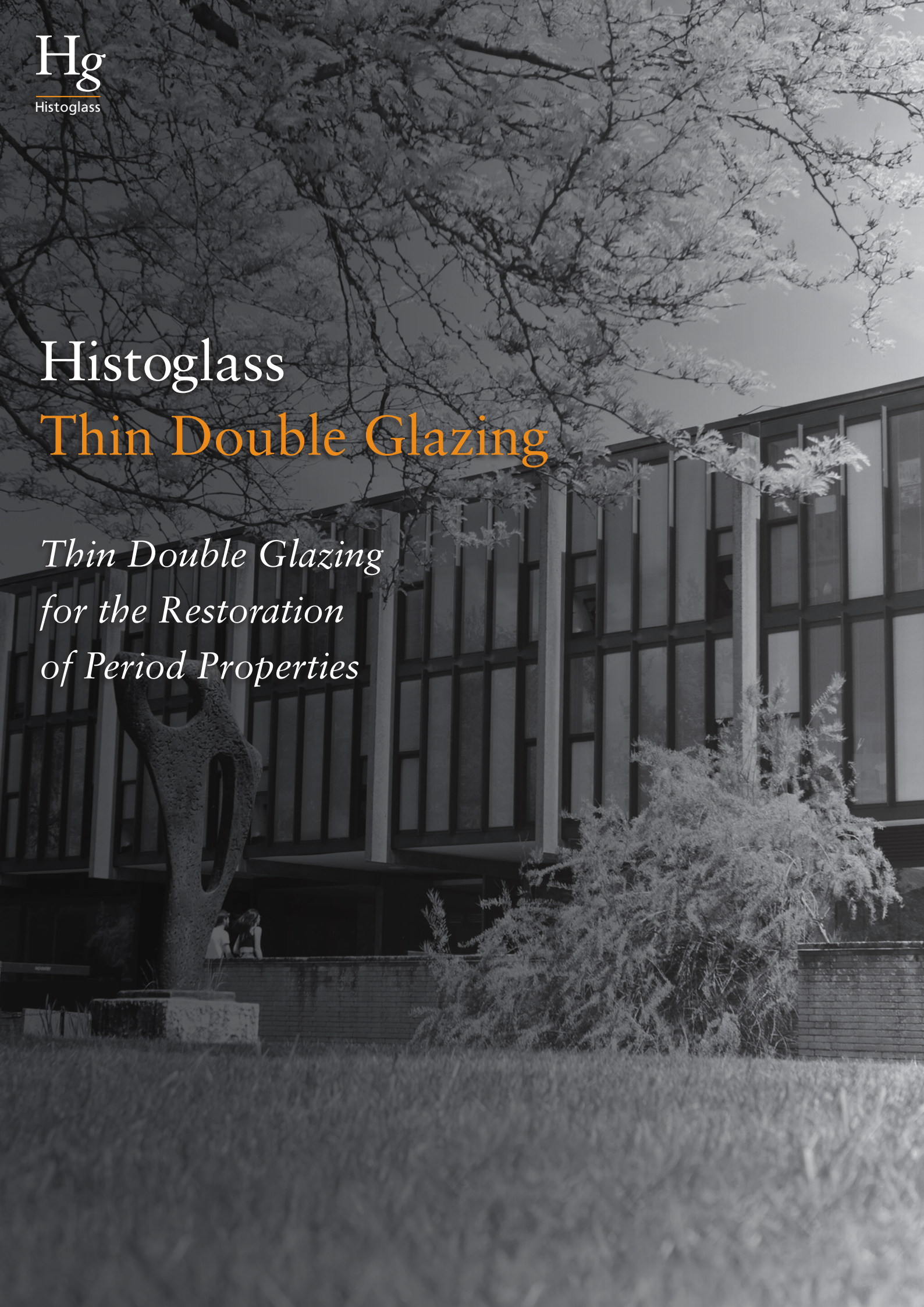
Thin Double Glazing

Thin Double Glazing for the Restoration of Period Properties



Available in 4 standard systems: HD10, HD11, HD12 and HD13. Each can provide a different thermal and / or acoustic performance. The inner pane has a Low Emissivity coating, the cavity is gas-filled and the outer pane can be selected from any of our historic glass types. Inner and outer panes can be in toughened and / or laminated glazing, depending on the historic glass type required. For our thinnest HD10 system, minimum rebate sizes should be 19mm deep and 10mm wide / high.

Why an aluminium spacer bar and not warm-edge?

Warm edge technology has been the standard for conventional double glazing and the required width of up to 18mm for the edge seal is well hidden in large modern rebates. For historic windows this is of course not an option. Because of the width of the glazing bars, the perimeter seal needs to be much smaller, which, unfortunately cannot be achieved with warm edge technology without compromising the quality of the sealed unit.

Our solution

The only reliable way to ensure consistent quality in the production of our units is to work with a primary seal which seals and bonds the 2 panes to the spacer bar, and secondary (perimeter) seal to make sure the unit retains its insulating gas.

This combination makes our perimeter seal (or sight line) 7-9mm. If we could use different materials to reduce this even further and still be able to guarantee the longevity of our product, we certainly would. After 35 years of testing, though, we haven't found a way, yet!

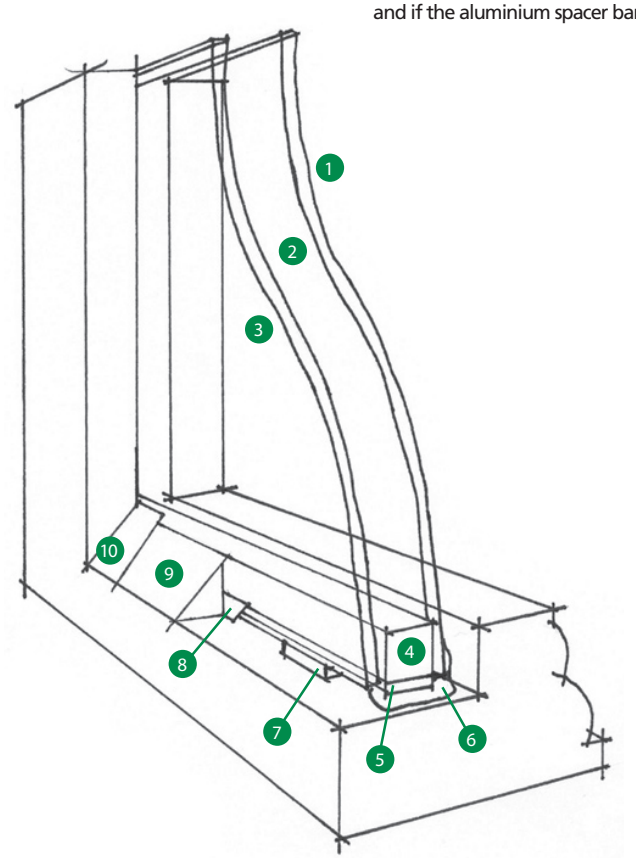
Over the past 35 years years, our research and development team have tested and compiled independent test data for many sealing systems. This knowledge has enabled us to construct a product that achieves all 6 parts of the BS EN 1279 standard, as defined in the European Legislative Product Directives.

Does the aluminium spacer bar create a cold-bridge?

All materials have thermal conductivity, some higher than others. Aluminium and glass individually have a relatively high conductivity and if the aluminium spacer bar touched the glass directly, it would most certainly create a cold-bridge. However, the primary seal creates a barrier between the two materials and as the thermal conductivity of this seal is negligible, so is the cold-bridge effect.

In summary

- Total thickness of units starting at 10mm
- The only system of its kind to conform to all 6 parts of BS EN 1279
- Covered by a 7-year manufacturer's warranty
- Available with toughened and laminated glazing (subject to period type)
- To maintain our 7-year warranty, we supply Kawo Elastokitt bedding compound with all our glazing orders. Whilst this can also be used as a putty finish, we recommend linseed putty / glazing bead to achieve a more traditional look and feel.
- The aluminium spacer bar can be coloured in any RAL-colour to match the colour of the frames.



System sketch

1. Low-E float glass inner pane
2. Gas-filled cavity
3. Outer pane
4. Aluminium spacer bar
5. Perimeter seal
6. Bedding compound: Kawo Elastokitt
7. Hardwood spacer
8. Sprig
9. Putty line - linseed putty, bead or Kawo Elastokitt
10. Paint overlapping onto the glass by 1-2mm

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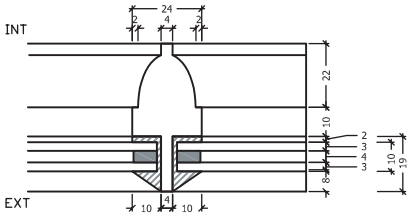
Glazing bar dimensions for Histoglass Standard Systems

For indication only. Please contact us for specific systems and projects

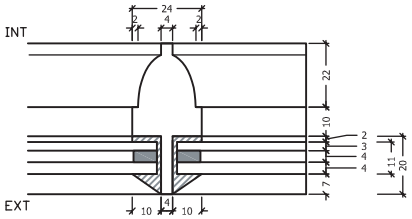
H D10



H D10

Thickness	3-4-3mm (10mm)
Weight	15kg/m.sq
U-value	1.9 (W/m2K)

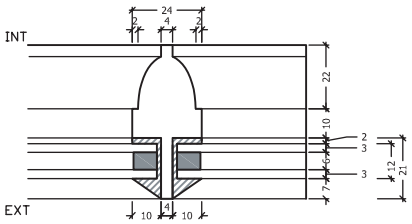
H D11



H D11

Thickness	3-4-4mm (11mm)
Weight	17.5kg/m.sq
U-value	1.9 (W/m2K)

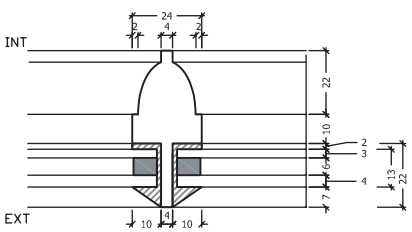
H D12



H D12

Thickness	3-6-3mm (12mm)
Weight	15kg/m.sq
U-value	1.5 (W/m2K)

H D13



H D13

Thickness	3-6-3mm (13mm)
Weight	17.5kg/m.sq
U-value	1.5 (W/m2K)

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Errors and omissions excepted / V3-July 2019