Hg
Histoglass

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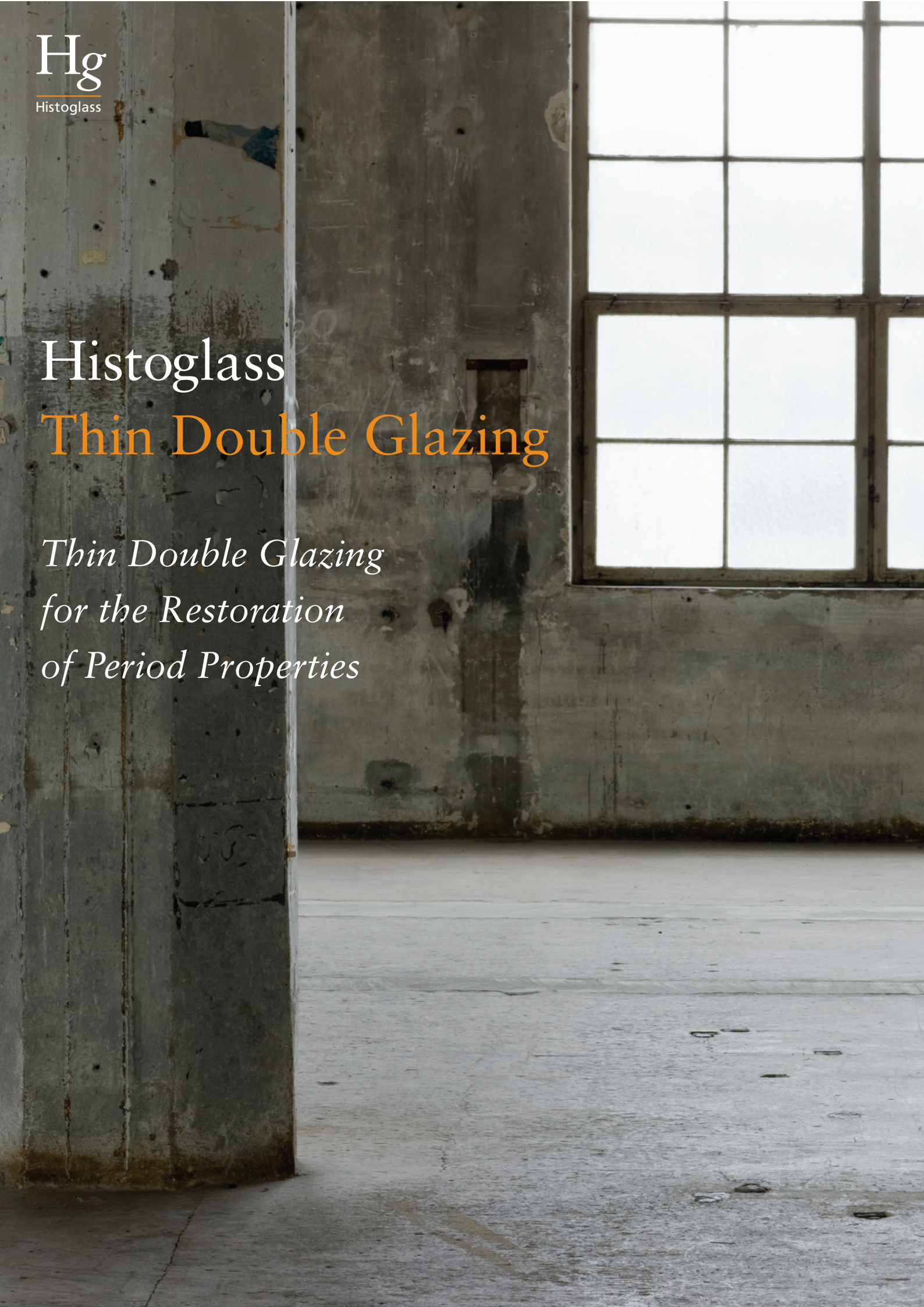
Thin Double Glazing

Thin Double Glazing for the Restoration of Period Properties



Available in 4 types: D10, D11, D12 and D13. Each providing varying acoustic and thermal insulation properties. The inner pane has a Low Emissivity coating, the cavity is gas-filled and the outer pane can be chosen from any of our (Historic) Glass Types. Inner and outer panes can be in Toughened and Laminated Glazing.
In existing frames the rebate should be at least 16mm deep and 8mm wide. For new frames and a 10mm unit, the optimal depth of the rebate is 18.5 mm, the overall width of the glazing bar 24mm (with a 10mm rebate width/height).

Why an aluminium spacer bar and not warm-edge?

Warm edge technology is now standard for conventional double glazing, and the required width of up to 18mm for the edge seal is well hidden in large 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.

Our solution

The only reliable way to ensure consistent quality in the production of our units is to work with a primary seal which bonds the 2 panes of glass to the aluminium spacer bar, and a secondary (perimeter) seal to make sure the unit retains the gas. This combination makes our perimeter seal 7-8mm. If we could use different materials to reduce this and still be able to guarantee the longevity of our product, we certainly would. After 25 years of testing, though, we haven't found a way yet!

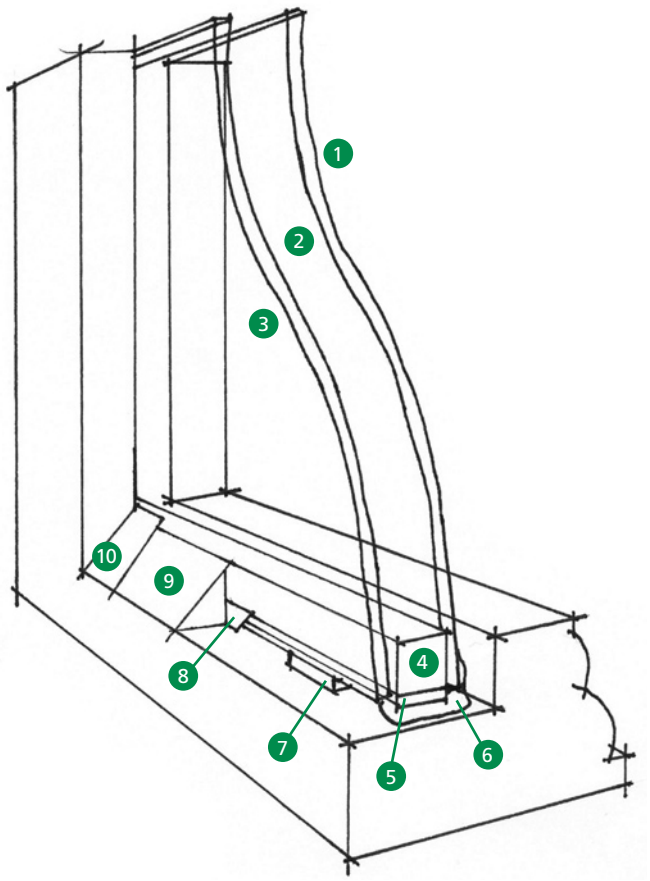
Over the past 25 years our research and development team have tested and compiled independent test data for many sealing systems. This knowledge has enabled us to construct a product that achieves all parts of the BS EN 1279 standard (parts 1-6) as defined in the European legislation Product Directives.

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, this is not the case as the primary seal provides a barrier between the two products and as the thermal conductivity of this seal is negligible, the cold-bridge effect is also negligible.

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 manufacturers warranty.
- Available with Toughened and Laminated Glass.
- For the outer pane please select from our selection of glass types (see our brochure Historic Glass Types) for all options and more information.
- We recommend installation using putty to obtain the look of single-glazed units. We supply a specially developed, non-linseed based sealant and putty for the installation of the units, this guarantees the highest possible quality.
- The aluminium profile can be coloured in any RAL-colour to match the colour of the paintwork of the frames.



1. Low-E float glass inner pane
2. Gas-filled cavity
3. Outer pane
4. Aluminium spacer bar
5. Perimeter seal
6. Sealant – Kawo Elastokitt
7. Hardwood spacer
8. Sprig
9. Putty line – Kawo Elastokitt
10. Paint overlapping onto glass by 1-2mm

UK GREEN BUILDING COUNCIL Member

CE BS EN 1279

Seven Year Guarantee

ISO 9001:2008

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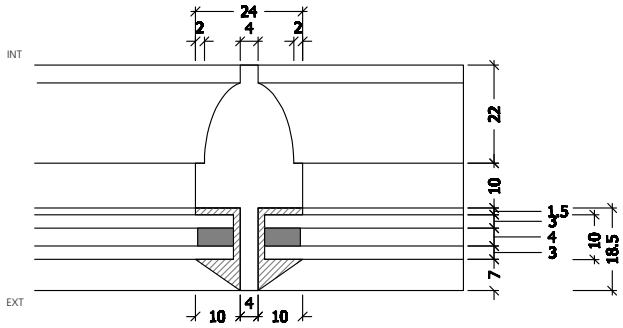
Optimal Glazing Bar Dimensions

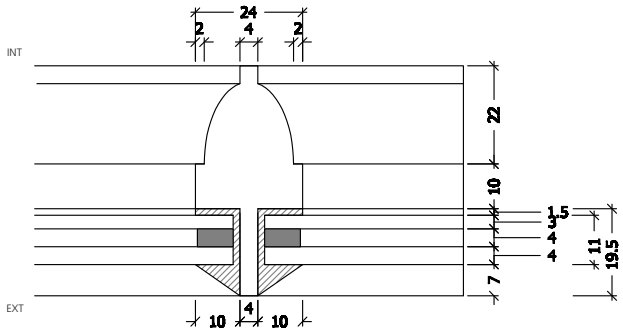
D10



D10

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

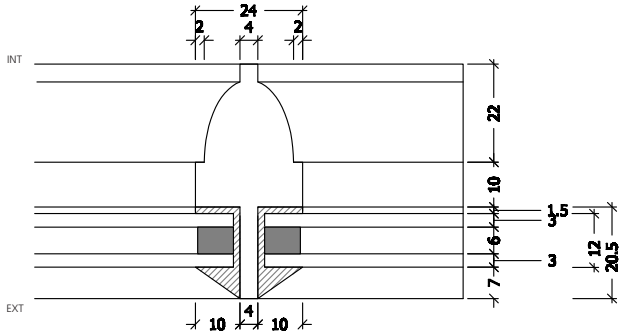
D11



D11

Thickness	3-4-4mm (11mm)
Weight	17.5kg/m.sq
U-value	1.9 (W/m2K)
Noise Reduction	34dB

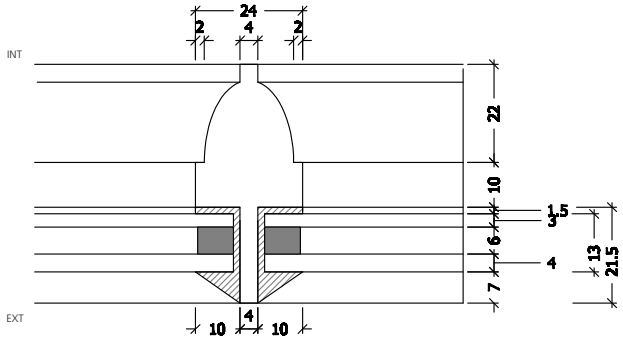
D12



D12

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

D13



D13

Thickness	3-6-4mm (13mm)
Weight	17.5kg/m.sq
U-value	1.5 (W/m2K)

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		Thermal Performance U-value in W/m2K	**Acoustic Performance** db
Requirement England and Wales Building Regulations Part L*	New fittings in extensions	1.8	
	Replacement fittings in existing dwellings	2.0	
Requirement Scotland Building Regulations Part J**	Replacement windows	1.8	
	Replacement glazing	To a standard no worse than existing	
Histoglass Thin Double Glazing	D10	1.9	
	D11	1.9	34
	D12	1.5	
	D13	1.5	
Histoglass Layered Insulating Single Glazing		3.4	
Single Glazing		5.4	

* Source: Approved Document L1B
** Source: Scottish Government – Building Standards Division

Errors and omissions excepted / V1-Nov 2010

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