

## **Replacement of French doors to 1<sup>st</sup> floor rear- 107 Castlenau**

The existing two pairs of French doors are not original and are warped and suffering from rot in areas, which means water is able to penetrate into the wood during the varying seasons and the doors are subject to thermal movement. Security and locking the doors is very difficult and results in the doors having to be forcibly closed causing further damage to the doors and fabric of the house. Our clients are very aware of the importance of retaining the aesthetic of these doors with slimline frames and dividing bars and so we are proposing to match the existing with specialist Histoglass product.

The proposals include the installation of specialist Listed building Histoglass Thin Double Glazing. The 10mm slim double glazing is specially designed to work with the same sized timber door frames, therefore there will be no changes to the external appearance.

The main reason that Conservation officers are concerned with the use of double glazing are:

- a) Larger timber frames/ glazing bars to accommodate the thicker double glazed units typically 16-20mm wide.
- b) The use of applied external Astragal and internal Georgian spacer bars to replicate small panes of glass and multiple glazing bars of Period houses.

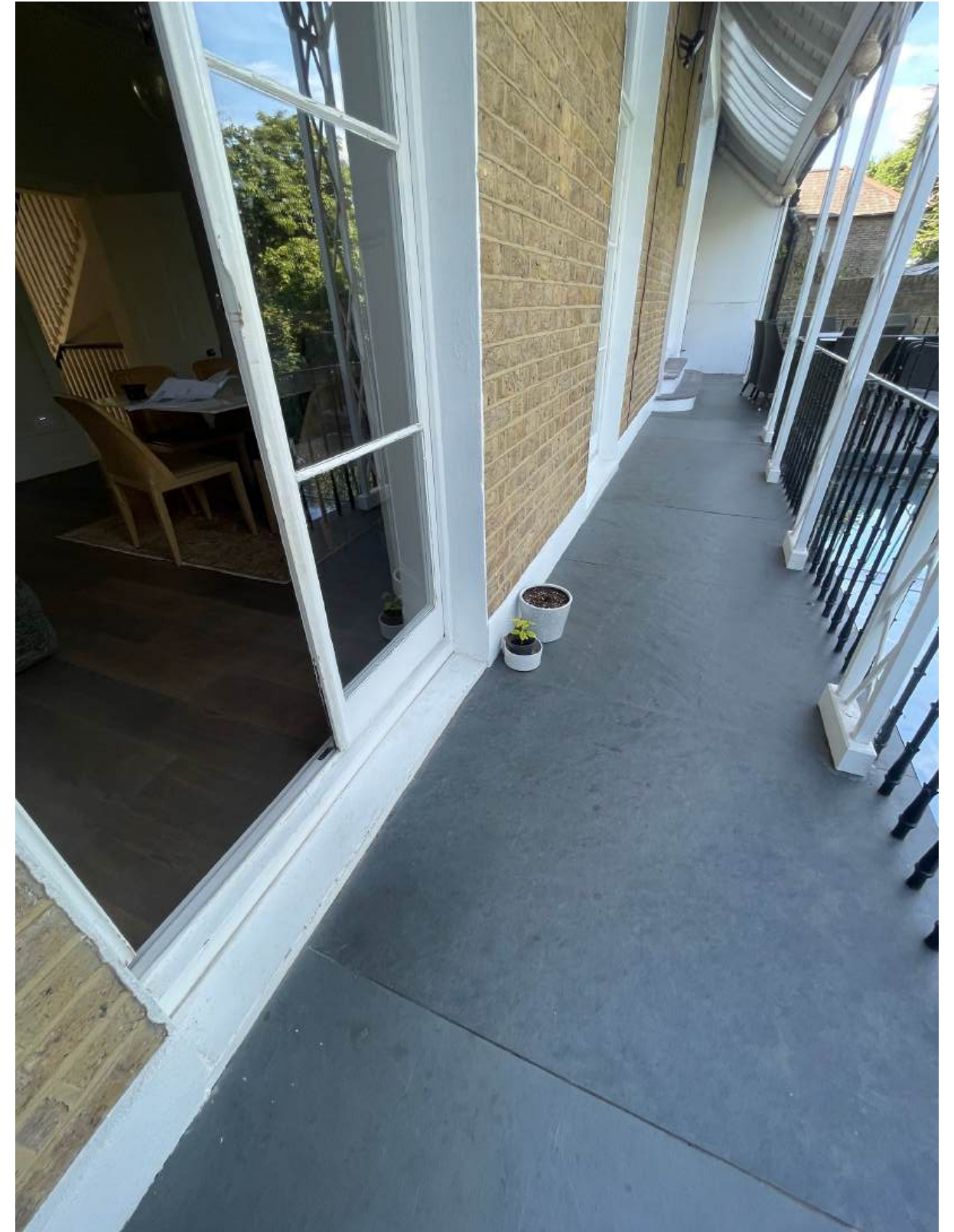
Neither a) nor b) are applicable on this property. A detailed description and drawings of the Histoglass product have been included in the typical glazing details, submitted as part of the application documents.

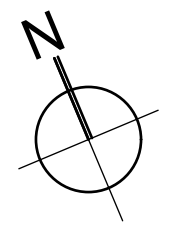
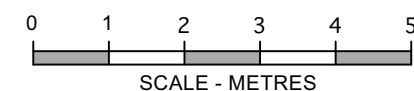
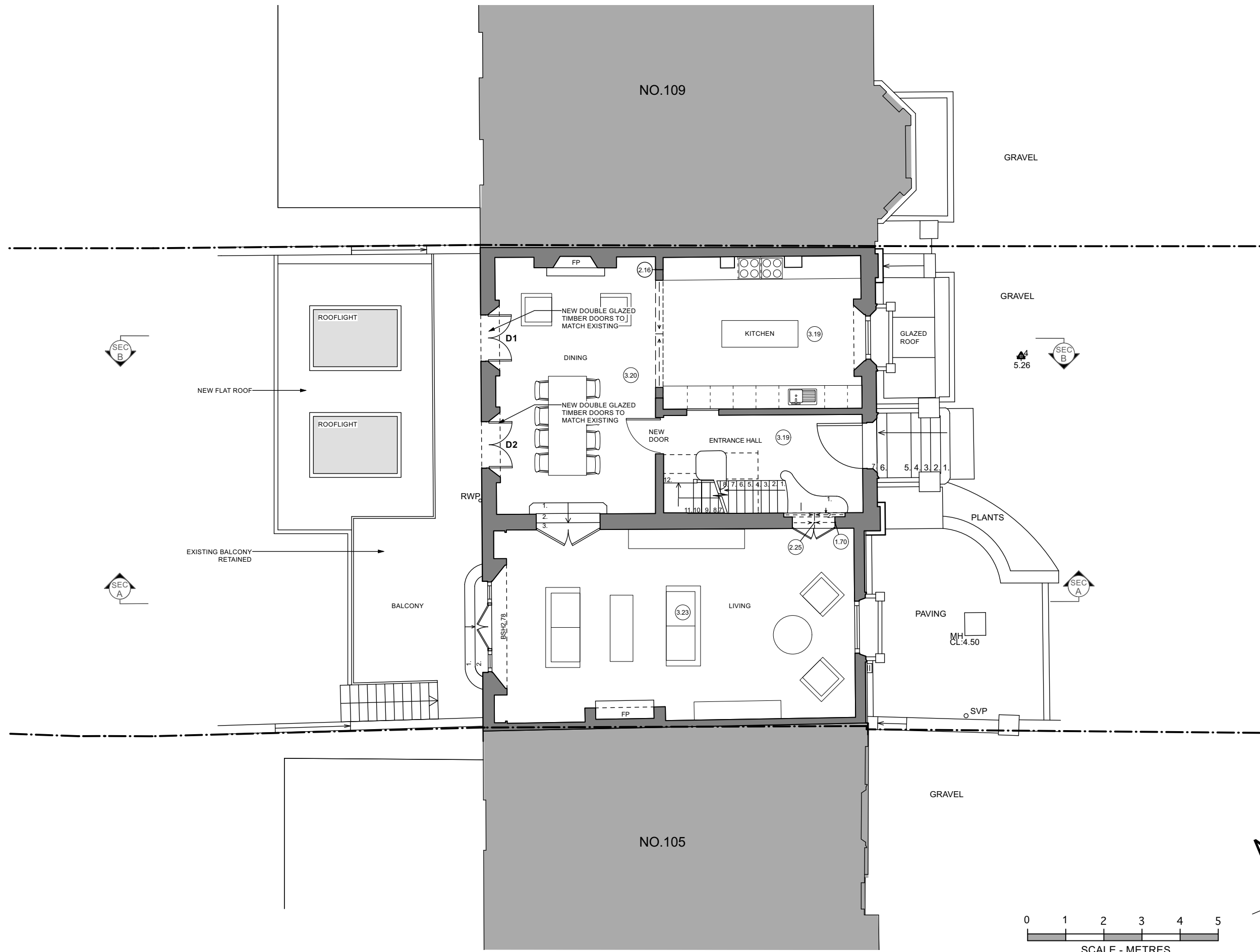
We have referred to the Historic England's guidance on the application of energy efficiency to historic buildings (online source: <https://historicengland.org.uk/images-books/publications/eehb-how-to-improve-energy-efficiency/>).


This guide states that (i) "balances [that] need to be struck in reaching reasonable solutions that suit all parties." (pg 1), and (ii) exemption from L1B is appropriate (only) if proposed efficiency measures would "unacceptably alter the characteristics and appearance of the building". It is our contention that the changes will not alter the appearance of the building at all, and that the only characteristic which will be altered (improved) is its very poor thermal envelope. It is requested that the Planning officers strike a reasonable balance in complying with this guidance.

The Government has introduced in October 2021 the new heat and buildings strategy to de-carbonise homes and changes to Part L of the Building regulations are coming into force this month. Councils have a responsibility to comply with these targets and in a situation like 28 Durand Gardens where the aesthetic would not change, this would be a specific project where the double glazed solution should be agreed.

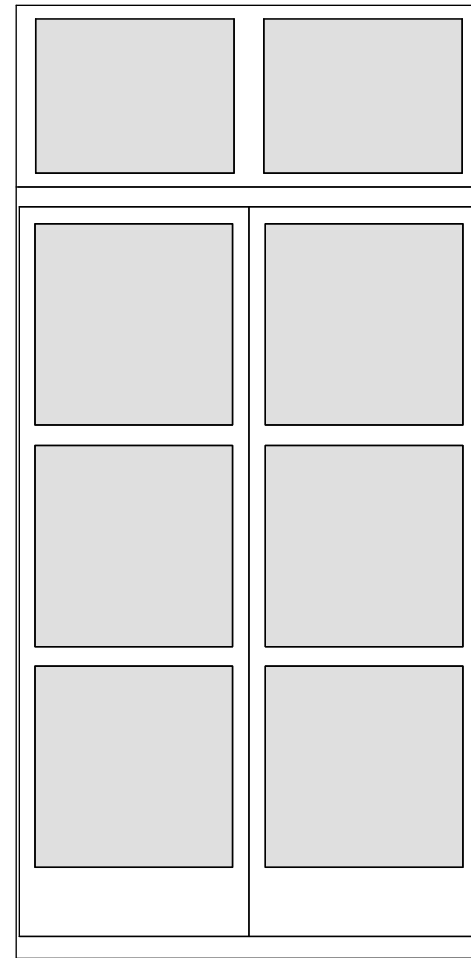
As stated above, the internal walls cannot be thermally insulated due to the Listed status of the Architectural internal details. Secondary glazing would have a far higher negative impact on the aesthetic of the windows internally and externally and the installation would cause far more damage to the Historic fabric than replacing the French doors.



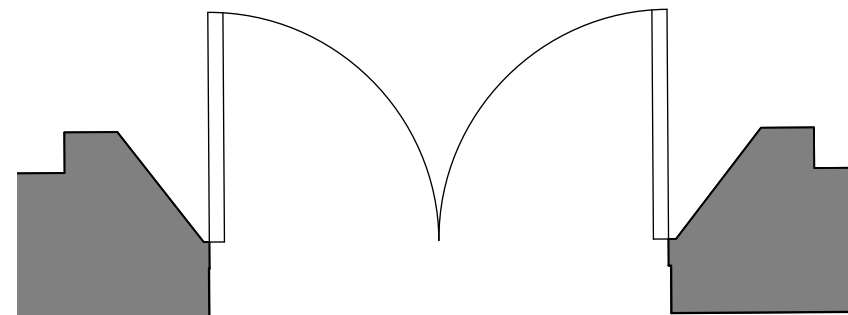


Revisions	<ol style="list-style-type: none"> <li>This drawing remains copyright of DyerGrimes Architects Limited and may not be reproduced or copied without consent in writing.</li> <li>Do not scale drawing use figured dimensions only.</li> <li>Any discrepancies between site and drawings to be reported to the architect immediately.</li> <li>Read in conjunction with all relevant structural and mechanical &amp; electrical engineers drawings.</li> <li>Dimensions critical to proposed building works must be checked on site before building works commences, as certain assumptions have been made due to lack of accessibility and anomalies in the existing building.</li> </ol>	Client & Address Mr Dyalan Nayager 107 Castelnau, Barnes, London, SW13 9EL		Title Proposed Upper Ground Floor Plan		 DyerGrimes Architecture   Studio 2, Three Eastfields Avenue Riverside Quarter, London, SW18 1GN T: 020 8874 0551   info@dyergrimesarchitects.com dyergrimesarchitects.com
		Date 03.09.24	Scale 1: 100 @ A3	No. 0654(01)04	Rev. B	

- GENERAL NOTES:**
1. New replacement windows and doors in existing masonry openings. All sizes to be confirmed with site dimensions, all openings to be surveyed prior to manufacture.
  2. All windows and doors to fully comply with Building Regulations.
  3. Shop drawings to be provided before manufacture.
  4. Ironmongery to be specified by Architect and factory fitted.
  5. Paint colour samples to be provided to Architect for approval prior to decoration.

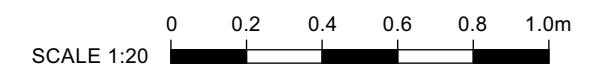


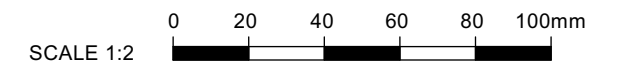
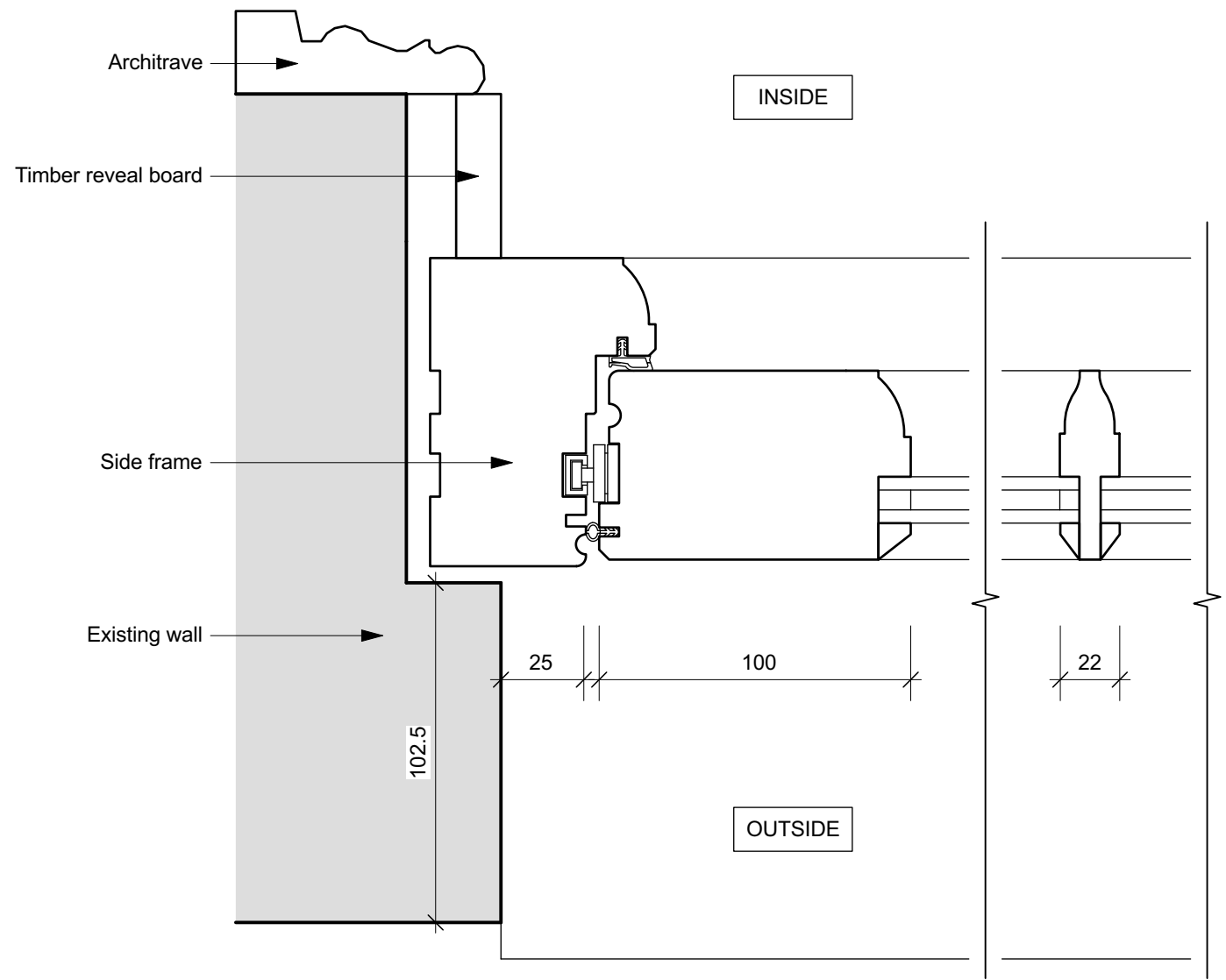
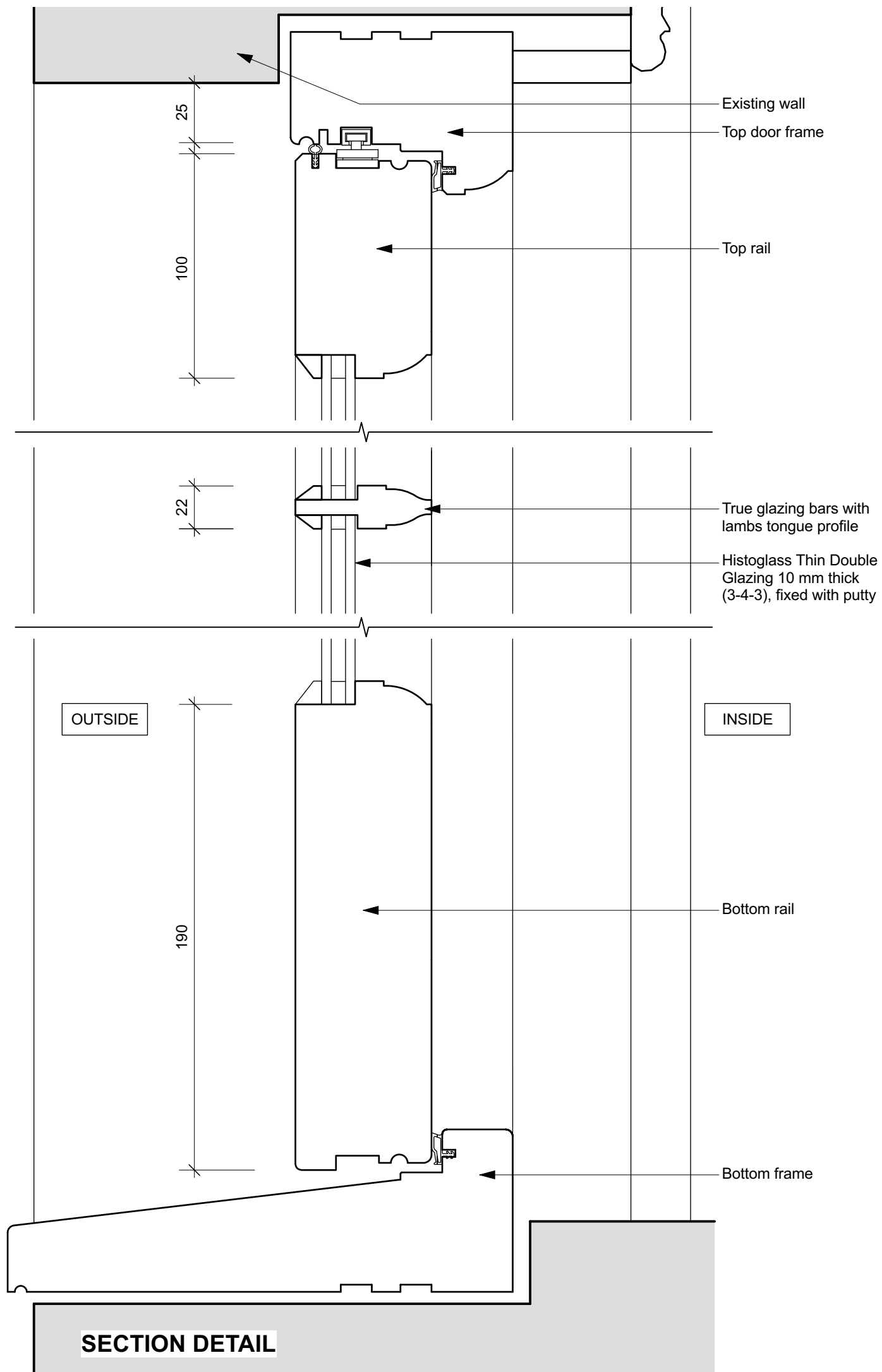
**D1 & D2**




**D1 & D2 Timber French Door**

Glazing	Histoglass Thin Double Glazing 10 mm thick (3-4-3), with black spacer bar
Decoration	
- Exterior	Microporous paint, colour to match existing
- Internal	Microporous paint, colour to match existing
Details	Refer to drawing 0638(31)23
U-Value	Whole Door U-Value: 1.4 W/m <sup>2</sup> K
Ironmongery	To match existing





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18.07.2024	1:2 @ A3	Rev.	-	



# Histoglass Thin Double Glazing

*Thin Double Glazing  
for the Restoration  
of Period Properties*



## The benefits of Thin Double Glazing

There's no better solution for fitting double-glazing to a historic property, including Grade-I listed buildings. Planning departments in some of the UK's most historically sensitive areas insist on our products.

Quite simply, Histoglass Thin Double Glazing is streets ahead of anything else available in the UK, and our products are unique in complying with all 6 parts of BS EN 1279.

### Aesthetic benefits

- Designed to be fitted into existing timber and metal frames without spoiling the fine detail of the glazing bars
- Available in a wide range of thicknesses from 10mm
- Available in a wide range of authentic glass types to suit the period
- Aluminium spacer bars are supplied in black or white as standard, but can be matched to any RAL colour
- Avoids conventional warm-edge technology (totally unsuitable for thin double glazing in historic windows).

### Durability benefits

Installed across Europe for over 35 years with an unrivalled record of longevity, our systems are made with the aim to deliver the same performance as the day they are installed.

### Technical benefits


- The only products of their kind to fully comply with all parts of BS EN 1279
- Superb German precision engineering
- Delivering U values of 1.9 to 1.5 on our most popular range of option. However, for bespoke options for larger projects with even greater insulation values, please contact us.
- The only product offering sound insulation up to 34dB.

### Planning benefits

- Recognised, trusted or even insisted upon by many planning authorities
- Already installed in Grade I and Grade II listed buildings
- Authentic historic glass types can also help to accelerate planning approval.

### Service benefits

- Protected by a 7-year manufacturer's warranty
- Ready to install: no need for builders to spend hours removing tape and excess bitumen
- Environmentally friendly manufacture, transport and packaging.

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<input type="text"/>		Histoglass Thin Double Glazing Product Reference		
Date	Scale	<input type="text"/>	Rev.	
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**Thin double glazing system**

sales@histoglass.co.uk  
www.histoglass.co.uk

Tel: +44 (0)1423 500 844

Highfield  
Selby Road  
Garforth Cliff  
Leeds  
LS25 2AG

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.

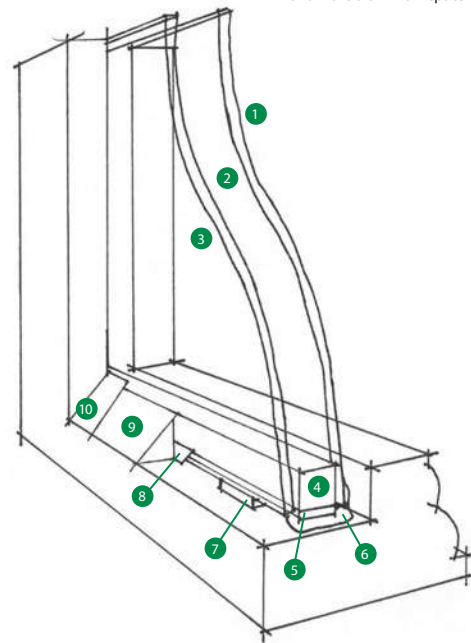
**Does the aluminium spacer bar create a cold-bridge?**

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



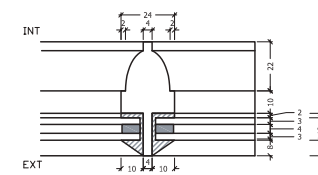
**Glazing bar dimensions for Histoglass Standard Systems**  
For indication only. Please contact us for specific systems and projects

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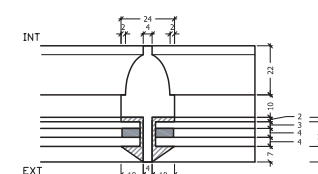
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LS25 2AG

H D10



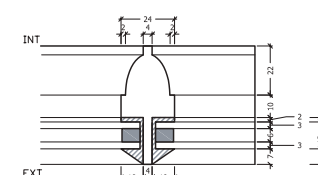
H D10  
Thickness 3-4-3mm (10mm)  
Weight 15kg/m<sup>2</sup>  
U-value 1.9 (W/m<sup>2</sup>K)

H D11



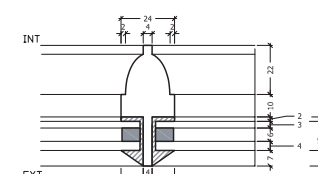
H D11  
Thickness 3-4-4mm (11mm)  
Weight 17.5kg/m<sup>2</sup>  
U-value 1.9 (W/m<sup>2</sup>K)

H D12




H D12  
Thickness 3-4-3mm (12mm)  
Weight 15kg/m<sup>2</sup>  
U-value 1.5 (W/m<sup>2</sup>K)

H D13



H D13  
Thickness 3-4-3mm (13mm)  
Weight 17.5kg/m<sup>2</sup>  
U-value 1.5 (W/m<sup>2</sup>K)

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