

GLAZING PERFORMANCE REPORT FOR SAP & BUILDING REGULATIONS

Document prepared in support of SAP calculations and Building Regulations compliance.

1. PROJECT DETAILS

Project / Site Address: Newbold Buildings
35 to 37 Oldham Rd
Rochdale
OL16 5QJ

Installation Works: Replacement of glass units only
(existing timber frames retained)

Purpose of Report: To provide glazing thermal and solar performance data for SAP calculations and Building Regulations compliance.

Date of Issue: 19 May 2025

2. COMPANY & CONTACT DETAILS

Company Name: Northern Glazing Systems Ltd

Registered Address: 21 Bolton Road
Bury
BL8 2AB

Telephone: 0161 726 5505

Email: info@northernglazingsystems.co.uk

Issued By: Thomas Bell, Director
Northern Glazing Systems Ltd

3. WINDOW OVERVIEW

Northern Glazing Systems Ltd have replaced the glass only within existing timber windows. The timber window profile / frame manufacturer and details are unknown. Windows include various sizes and some arched units.

Window Type	Description	Typical / Average Unit Size (Approximately)	Notes
Rectangular Units	Fixed and opening lights	550mm (W) x 1020mm (H)	Various sizes to suit openings.
Arched Units	Arched top lights	550mm (W) x 1020mm (H) (approx. overall)	Various arched shapes and sizes.
Glazing Thickness	Double Glazed Unit	24mm overall thickness (4mm / 16mm / 4mm)	Low-E, Argon filled.
Frame Material	Existing Timber	Unknown profile / system	Glazing replaced only.

4. GLAZING SPECIFICATION

Glass Composition: 4mm Low-E / 16mm Argon (90%) / 4mm (24mm overall)

Low-E Coating: Yes (generic high performance Low-E)

Gas Fill: Argon 90%

Spacer Type: Aluminium (Silver Spacer)

Glass Manufacturer: Generic (values based on typical industry data for 24mm Low-E argon filled units)

Glass Configuration Code / Description: Generic 4/16/4 Low-E Argon (Silver Spacer)

5. GLAZING PERFORMANCE DATA

Performance Parameter	Value
Centre Pane U-value (U _g):	1.10 W/m ² K
Whole Window U-value (U _w):	1.60 W/m ² K (indicative)
Solar Factor (g-value):	0.63 (generic Low-E)
Light Transmittance (T _v):	0.72 (indicative)
Frame Factor (FF):	Unknown – existing timber frames (not tested)
Spacer Thermal Conductivity:	Aluminium (Silver Spacer)
Air Permeability:	N/A (existing frames)
Water Tightness:	N/A (existing frames)

6. NOTES & LIMITATIONS

- The U-value (U_w) provided is indicative only and based on typical performance of 24mm Low-E argon filled glazing installed into timber frames.
- The existing timber window frames are of unknown profile and age; therefore, no frame factor (FF) can be provided.
- The values provided are for SAP calculations only and are not a substitute for a full window energy rating by a certified scheme.
- This report relates solely to the glass units supplied and installed by Northern Glazing Systems Ltd.
- For exact project-specific U_w values, testing or manufacturer's data for the complete window assembly would be required.

7. SUPPORTING DOCUMENTATION

Generic performance values have been used based on industry standard data for 24mm Low-E argon filled units.

Upon request, typical manufacturer data sheets for equivalent glass products can be provided.

This report can be used by the SAP assessor for compliance evidence in the absence of known frame manufacturer data.

8. DECLARATION

I confirm that the information provided in this report is accurate to the best of my knowledge and belief and is provided in good faith for the purposes of SAP calculations and Building Regulations compliance.

Signed: *Thomas Bell*

Name: Thomas Bell

Position: Director

Date: 19 May 2025