SystemSelect™ **Glass Product Builder**

Performance Datasheet

Designed by/for: Date: 8/26/2026

Ironwood

ARCHITECTURAL GUIDE SPECIFICATION
SECTION 088000 GLAZING

Note to Specifiers:
The specifications below are suggested as desirable inclusions in glass and glazing specifications (section 088000), but are not intended to be complete. An appropriate and qualified Architect or Engineer must verify suitability of a particular product for use in a particular application as well as review final specifications. Oldcastle BuildingEnvelope® assumes no responsibility or liability for the information included or not included in these specifications.

APPROVED GLASS FABRICATOR **Oldcastle BuildingEnvelope®**

GLAZING PRODUCTS

Glass Standards

1. Annealed float glass shall comply with ASTM C1036, Type I, Class 1 (clear), Class 2 (tinted), Quality-Q3.
2. Heat-strengthened float glass shall comply with ASTM C1048, TypeI, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind HS.
3. Tempered float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind FT.
4. Laminated glass to comply with ASTM C1172.
5. Glass shall be annealed, heat-strengthened or tempered as required by codes, or as required to meet thermal stress and wind loads.

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for samples or additional information. SystemSelect® calculates center of glass data using the Lawrence Berkeley National Laboratory (LBNL) Berkeley Lab WINDOW Calc Engine (CalcEngine) with thermal performance per NFRC 100, 200 & 500. Glass data is from following sources: 1. LBNL International Glazing Database (IGDB); 2. Vendor supplied data; 3. LBNL Optics 6; 4. Based on vendor testing, clear acid-etched glass performance data is estimated using regular clear glass of equivalent thickness. Framing system values and glass spacer values determined per LBNL THERM 7.4. Thermal values are in both Imperial (IP) and Metric (SI) units.

Sealed Insulating Glass (IG)
Vision Glass (Vertical)

1. IG units consist of glass lites separated by a dehydrated airspace that is hermetically dual sealed with a primary seal of polyisobutylene (PIB) or Thermoplastic Spacer (TPS) a and a secondary seal of silicone or an organic sealant depending on the application.

2. USA - Insulating glass units are certified through the Insulating Glass Certification Council (IGCC) to ASTM E2190. Canada - Insulating Glass units are certified through the Insulating Glass Manufacturers Alliance (IGMA) to either the IGMAC certification program to CAN/CGSB-12.8, or through the IGMA program to ASTM E2190.

IG VISION UNIT PERFORMANCE CHARACTERISTICS

1. Exterior Lite: 6mm (1/4") Guardian SunGuard® SN 68 on Clear Low-E #2
2. Cavity: 1/2" (Air Fill)
3. Interior Lite: 6mm (1/4") Guardian Clear
4. Performance Characteristics

Thermal		Optical	
Winter U-factor (Btu/h·ft^2·F):	0.29	Visible Light Transmittance:	68%
Winter U-factor (W/m^2·K):	1.66	Visible Light Reflectance (outside):	11%
Solar Heat Gain Coefficient:	0.38	Visible Light Reflectance (inside):	12%
Shading Coefficient:	0.43	Total Solar Transmittance:	33%
Light to Solar Gain:	1.80	Total Solar Reflectance (outside):	32%
		Ultraviolet Transmittance:	30%

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