

Performance Datasheet

Designed by/for: Ready Access

Date: 2/23/2021

**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. USA - Annealed float glass shall comply with ASTM C1036, Type I, Class 1 (clear), Class 2 (tinted), Quality-Q3. Canada - Annealed float glass shall comply with CAN/CGSB-12.3-M, Quality-Glazing.
2. USA - Heat-strengthened float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind HS.
Canada - Heat-strengthened float glass shall comply with CAN/CGSB-12.9-M, Type 2-Heat-Strengthened Glass, Class A-Float Glass.
3. USA - Tempered float glass shall comply with ASTM C1048, Type I, Class 1 (clear), Class 2 (tinted), Quality Q3, Kind FT. Canada - Tempered float glass shall comply with CAN/CGSB-12.1M, Type 2-Tempered Glass, Class B-Float Glass.
4. USA - Laminated glass to comply with ASTM C1172. Canada - Laminated glass to comply with CAN/CGSB-12.1-M, Type 1-Laminated glass, Class B-Float Glass.
5. USA & Canada - Glass shall be annealed, heat-strengthened or tempered as required by codes, or as required to meet thermal stress and wind loads.

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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) v70.0; 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.

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Monolithic Laminated Glass
(Vertical)

1. Laminated glass products to be fabricated in autoclave with heat, plus pressure, free of foreign substances and air pockets.
2. Interlayer material: Extruded sheet interlayer.

LAMINATED VISION LITE PERFORMANCE CHARACTERISTICS

1. Laminated Lite: 8mm (5/16") Laminate - 1/8" Clear - 0.060" Saflex® Clear PVB - 1/8" Clear
2. Performance Characteristics

Thermal

Winter U-factor (Btu/h·ft²·F):
 Winter U-factor (W/m²·K):
 Solar Heat Gain Coefficient:
 Shading Coefficient:
 Light to Solar Gain:

0.98
 5.56
 0.79
 0.91
 1.12

Optical

Visible Light Transmittance: 89%
 Visible Light Reflectance (outside): 8%
 Visible Light Reflectance (inside): 8%
 Total Solar Transmittance: 74%
 Total Solar Reflectance (outside): 7%
 Ultraviolet Transmittance: <1%

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