

**ARCHITECTURAL GUIDE SPECIFICATION
SECTION 08 81 00 GLASS GLAZING**

Note to Specifiers:

The specifications below are offered as desirable inclusions in glass and glazing specifications (section 08 81 00), 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.

PRODUCTS

Approved Glass Fabricator Oldcastle Glass®

Glass Description FLOAT GLASS

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-12.1-M, 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. Glass shall be annealed, heat-strengthened or tempered as required by codes, or as required to meet thermal stress and wind loads.

Monolithic Vision Glass (vertical) GENERAL

1. Glass heat-treated by the horizontal (roller hearth) process shall have the inherent roller wave distortion running parallel to the bottom edge of the glass as installed when specified.

MONOLITHIC VISION LITE PERFORMANCE CHARACTERISTICS

1. Monolithic Lite 1/4" Clear

2. Performance Characteristics

Thermal

Winter U-factor/U-Value (Btu/hr-ft ² -F°):	1.02
Summer U-factor/U-Value (Btu/hr-ft ² -F°):	0.93
Solar Heat Gain Coefficient:	0.82
Shading Coefficient:	0.94
Relative Heat Gain (Btu/hr-ft ²):	201
Light to Solar Gain:	1.09

Optical

Visible Light Transmittance:	89%
Visible Light Reflectance (outside):	9%
Visible Light Reflectance (inside):	9%
Total Solar Transmittance:	77%
Total Solar Reflectance (outside):	7%
Ultraviolet Transmittance:	66%

Contact Oldcastle Glass® at (866) 653-2278 for samples or additional information concerning performance, strength, deflection, thermal stress or application guidelines. GlasSelect® calculates center of glass performance data using the Lawrence Berkeley National Laboratory (LBNL) Window 5.2 program (version 5.2.17) with Environmental Conditions set at NFRC 100-2001. Gas Library ID#1 (Air) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with argon. Monolithic glass data is from the following sources: 1. LBNL International Glazing Database (IGDB) version 16.3; 2. Vendor supplied spectral data files. Laminated glass data is from the following sources: 1. LBNL International Glazing Database (IGDB) version 16.3; 2. LBNL Optics 5 (version 5.1 Maintenance Pack 2); 3. Vendor supplied spectral data files; 4. Vendor supplied data.