

ASTM E 1300 GLASS LOAD RESISTANCE REPORT

JOB DETAILS:

Project Name: **Milne School CDW - 001 – Mark Q1.dwg - (lite G1) 38.5" x 54" (Inner & Outer Panes)**

WINDOW GLASS DETAILS:

3/4-" Insulated Window

Lite Designation: **Window**
Rectangular Dimensions: Long: 38.5" : Short: 54"
Window Construction: Insulated
1/4" Glass / 1/4" Gas/ 1/4" "
Window Orientation: Sloped at 0° from Horizontal

Outer Lite

Product: 1/4 " HS
Glass Type: HS
Construction: Monolithic
Nominal Thickness: Plate thicknesses -- 1/4"

InnerLite

Glass Type: 1/2 " HS
Construction: Monolithic
Nominal Thickness: Plate thicknesses -- 0.509"
Laminate Construction: n/a

SHORT DURATION LOAD, RESISTANCE AND DEFLECTION DATA:

Load (<=60 sec.) : 45 psf
Load Deflection (Inner Lite): : < 0.286 in
Load Deflection (Outer Lite): : < 0.014 in
Maximum Allowable Glass Deflection: : L/175

CONCLUSION:

This glass configuration is below the maximum L/175 deflection for the specified loading.

STATEMENT OF COMPLIANCE:

Procedures followed in determining the resistance of this window glass configuration are in accordance with ASTM E 1300-97.

Disclaimer:

The load resistance of specified glass types exposed to uniform lateral loads of short or long duration subject to the following conditions:

- The glass is free of edge and surface damage and has been properly glazed in the opening in conformance with the manufacturers recommendations.
- The glass is supported on all sides by a framing system sufficiently stiff to limit lateral deflection of the glass edge (not center-of-glass) less than to 1/175 of the glass edge length; Center of glass deflection in excess of 19-mm (0.75-in.) is a design issue and does not affect glass strength.
- The laminated glass factors for short term loads are representative of roof temperature data to which the glass is exposed.

For other limiting conditions that may apply, refer to Section 5 of ASTM E1300 and local building codes.

Prepared by : _____

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