

ASTM E 1300 GLASS LOAD RESISTANCE REPORT
3/8/2017

JOB DETAILS:

Project Name: **Laurel School Renovation**

WINDOW GLASS DETAILS: 1/2 " Laminated Windows

Lite Support: 4 Edges
Rectangular Dimensions: Various
Window Construction: Laminated - 1/4" CL TP 090 PVB 1/4" CL TP
Window Orientation: Sloped at 0° from Vertical

G2 Designated Panes from Plans Sheet Numbers 104, 105, and 106

WINDOW SIZE	DEFLECTION
Sheet 104 - Laurel School G2 - 40.375 x 32.1675	< 0.006"
Sheet 105 - Laurel School G2 - 40.375 x 31	< 0.006"
Sheet 106 - Laurel School G2 - 24 x 34.75	< 0.006"

SHORT DURATION LOAD, RESISTANCE AND DEFLECTION DATA:

Load (<=60 sec.) : 45 psf

Maximum Allowable Glass Deflection: : L/175

CONCLUSION:

The G1 glass configurations are 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 :  Date: 3/16/2017