

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

G1 Designated Panes from Plans Sheet Numbers 104, 105, 106 107, and 108

WINDOW SIZE	DEFLECTION
Sheet 104 - Laurel School G1 - 32.5 x 32.1675	< 0.006 "
Sheet 104 - Laurel School G1 - 55.625 x 32.1675	0.003"
Sheet 104 - Laurel School G1 - 56 x 32.1675	0.003"
Sheet 105 - Laurel School G1 - 32.5 x 31	< 0.006 "
Sheet 105 - Laurel School G1 - 54.875 x 31	0.002"
Sheet 105 - Laurel School G1 - 56 x 31	0.002"
Sheet 106 - Laurel School G1 - 32.5 x 34.75	< 0.006 "
Sheet 106 - Laurel School G1 - 37.5 x 34.75	< 0.006 "
Sheet 106 - Laurel School G1 - 55.25 x 34.75	0.006"
Sheet 106 - Laurel School G1 - 67 x 34.75	0.015"
Sheet 107 - Laurel School G1 - 76.625 x 52.625	0.141"
Sheet 108 - Laurel School Door G1 - 28.5 x 19	< 0.006"
Sheet 108 - Laurel School Door G1 - 29.75 x 24.5	< 0.006"
Sheet 108 - Laurel School Door G1 - 40 x 24.5	< 0.006"
Sheet 108 - Laurel School Door G1 - 59.5 x 19	< 0.006"
Sheet 108 - Laurel School Door G1 - 63.5 x 29.75	0.004"
Sheet 108 - Laurel School Door G1 - 63.5 x 40	0.030"
Sheet 108 - Laurel School Door G1 - 77.8 x 27.9	0.010"
Sheet 108 - Laurel School Door G1 - 77.63 x 27	0.010"
Sheet 108 - Laurel School Door G1 - 79.58 x 27.78	0.011"

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