

ASTM E 1300 GLASS LOAD RESISTANCE REPORT

JOB DETAILS:

Project Name: RIVER CHASE - SHEET 3 - GL1 -113.5 x 50.5 (Inner & Outer)

WINDOW GLASS DETAILS: 1-" Insulated Window

Lite Support: 4 Edges
Rectangular Dimensions: Long: 113.5" : Short: 50.5"
Window Construction: Insulated - 1/4" Glass / 1/2" Gas / 1/4" Glass
Window Orientation: Sloped at 0° from Vertical

Outer Lite

Product: SNX 51/32 on CrystalGray #2
Glass Type: Tempered
Construction: Monolithic
Nominal Thickness: Plate thicknesses -- 0.250"

InnerLite

Product: Clear
Glass Type: Tempered
Construction: Monolithic
Nominal Thickness: Plate thicknesses -- 0.250"

SHORT DURATION LOAD, RESISTANCE AND DEFLECTION DATA:

Load (<=60 sec.) : 45 psf
Load Deflection (Inner Lite): : 0.941 in
Load Deflection (Outer Lite): : 0.941 in
Maximum Allowable Glass Deflection: : L/175

CONCLUSION:

This glass configuration EXCEEDS 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.

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