

GL 3-1/4" CLEAR TEMP – 1/2" MILL AIRSPACE – ( 1/4" CLEAR TEMP / 0.09 PVB / 1/4" CLEAR TEMP)

**ASTM E 1300 GLASS LOAD RESISTANCE REPORT**

**JOB DETAILS:**

Project Name: **Algiers Pediatric 003 - MARK A – 20.25 x 12 (Inner & Outer Panes)**

**WINDOW GLASS DETAILS:**

**1-1/4" Insulated Window**

Lite Designation

**QTY 2 Window**

Rectangular Dimensions:

Long: **20.25"** : Short: **12"**

Window Construction:

Insulated

1/4" Glass / 1/2" Air Space / (1/4" TEMP / 0.09 PVB / 1/4" TEMP)

Window Orientation:

Sloped at 0° from Horizontal

Outer Lite

Product

1/2" Tempered

Glass Type:

Laminated & Tempered

Construction:

Monolithic

Nominal Thickness:

Plate thicknesses -- .509"

InnerLite

Glass Type:

1/4" Tempered

Construction:

Monolithic

Nominal Thickness:

Plate thicknesses -- 1/4"

Laminate Construction:

n/a

**SHORT DURATION LOAD, RESISTANCE AND DEFLECTION DATA:**

Load (<=60 sec.) : 45 psf  
Load Deflection (Inner Lite): : < 0.001 in  
Load Deflection (Outer Lite): : < 0.001 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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