

ENGINEER'S COMPARATIVE ANALYSIS REPORT DATED 11/6/07:

EFCO Corporation 1000 County Road Monett, MO 65708

Phone: (417) 235-3193; Fax (417)235-7313

Product model & name: Series 6621 Fixed Window

Documents that must accompany this report:

1. Tappana Ondrick drawing #07-155.12 and fastener calculation package.

Window construction/installation:

<u>Frame construction:</u> Frame member (1F75) is formed of extruded 6063-T6 aluminum with wall thickness = .094" and an overall depth of 3.875". Frame corners are milled and mechanically assembled using two (2) #8 x 1" XMX per corner.

Glass: 1-1/4" HRG-2 Insulated Laminated Glass provided by Viracon. $\frac{1}{4}$ " heat strengthened glass - 7/16" air space - 3/16" heat strengthened glass - .050" polyurethane - .080" polyurethane - 3/16" heat strengthened glass.

Glazing: Interior glazed with Bondaflex Structural Silicone Sealant and Santoprene bulb weatherstrip with the glazing stop mechanically attached with #8 x ¾" Tek screw located 3" from the ends and 16" o.c. The exterior is glazed using Bondaflex Structural Silicone Sealant.

Installation: To be in accordance with Tappana Ondrick drawing #07-155.12

Hardware: N/A

Window size and design pressure restrictions: 48" x 72" at a design pressure of +120/-140 psf.

FBC Section 1707 materials and assembly tests performed:

Test Standards:

ASTM E283 (Air Infiltration)

ASTM E331 (Water Resistance)

ASTM E330 (Uniform Deflection)

ASTM 1886/1996 (Large Missile Impact)

TAS 201, 202, 203

<u>Test laboratory</u>: Hurricane Test Laboratory, LLC

1701 West Fork Dr., Suite 106

Lithia Springs, GA 30122

Test Report numbers and dates:

G046-0504-07 (48" x 72" window to +120/-140 psf.) dated 5/1-5/14/07.



General report notes:

- 1. All size and installation conditions shown in this report are based off of referenced test report and/or engineering analysis in accordance with the Florida Building Code.
- 2. Windows shall be constructed in accordance with the descriptions in this report, the applicable test report and the manufacturer's state approved quality assurance entity specifications.
- 3. This product is approved for use in High Velocity Hurricane Zones (HVHZ)
- 4. Job required wind pressures shall be calculated in accordance with Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures.

Impact Certification:

These windows are large missile impact rated.

Certification of Independence:

Tappana Ondrick Structural Engineers and Craig Ondrick, P.E., do not have nor will acquire, a financial interest in any company manufacturing or distributing products nor any other entity involved in the approval process for which this product report is issued.

Applicable Codes and Standards:

- Section 1707.4 of the Florida Building Code
- ASTM E1300
- ANSI/AAMA/NWWDA 101/IS2-97
- AA Specifications for Aluminum Structures, Aluminum Design Manual, 2000

Quality Assurance Entity: (ATI) Architectural Testing, Inc., York, PA

Craig Ondrick, P.E.

Florida P.E. #57270

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