L. Roberto Lomas P.E.

Engineering Evaluation Report

400 S Palm Ave Indialantic, FL 32903 434-688-0609 rllomas@lrlomaspe.com

Report No.: 515087

Manufacturer: Therma-Tru Corporation

1750 Indian Wood Circle Maumee, OH 43537

Product Line: Series V-2 FGW 3X8 Panel Outfold Aluminum Reinforced – Non Impact

Compliance:

The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

- 1. Approval document: drawing number 08-03864, prepared, signed and sealed by Luis Roberto Lomas P.E.
- 2. Test Report No.: NCTL 110-15005-2 signed and sealed by Robert Zeiders, P.E.

National Certified Testing Laboratories, York, PA.

ASTM E330

Design pressure: ±80.0psf

Water penetration resistance 9.0psf

3. Test Report No.: NCTL 110-15135-1 signed and sealed by Robert Zeiders, P.E.

National Certified Testing Laboratories, York, PA.

TAS 202 Uniform Static Air Pressure, ±65.0psf design pressure.

4. Test report No.: NCTL 110-15540-1 signed and sealed by Robert H Zeiders P.E.

National Certified Testing Laboratories, York, PA

TAS 202 Uniform Static Air Pressure, ±70.0psf design pressure, 9.0psf water penetration.

10,390psi

I-Strut Testing:

a. Test report ETC-07-1043-19094.0, signed and sealed by Joseph Labora Doldan P.E.

ETC Laboratories, Rochester, NY, ASTM D638

Tensile strength of unexposed samples

Tensile strength of 4500 hour Xenon Arc exposed samples 11,004psi

Test report ETC-08-1043-20974.0 signed and sealed by Joseph Labora Doldan P.E.
 ETC Laboratories, Rochester, NY, ASTM D1929 Self ignition 740oF

c. Test report ATI 61261.01-106-18 signed and sealed by Joseph Reed P.E.

Architectural Testing Inc. York, PA

ASTM D635 Rate of burning classification: CC1 (23.9mm/min, .94in/min)

ASTM D2843 Smoke density rating: 2.1

6. EPDM testing:

Test report No.: PN 105435 Signed by Jim Drummond

Akron Rubber Development Laboratory, Inc. Akron OH an A2LA accredited testing laboratory

Certificate numbers 255.01 and 255.02

ASTM D2240 Hardness, Shore A: 71 durometer

ASTM D395 Compression set, 22 h @ 100 C, max. %: 22

ASTM D1149 Ozone resistance, 100 MPa, 100 h @ 40 C, 20% elongation: No cracks

ASTM D412 Tensile strength: 1410 psi

ASTM D412 Elongation @ rupture, min. %: 266
ASTM D573 Heat aging, 70 h @ 100 C: +4
ASTM D573 Hardness increase, max. duro. Points

Change in tensile strength, max. %: +8% Change in elongation, max. %: -21%

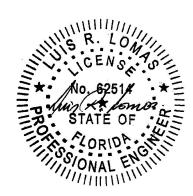
ASTM D624 Tear strength, min: 126.2 lbf/in

ASTM D746 Brittleness temperature, 3 minutes @ -40 C: No cracks

ASTM D925 Non-staining: No migratory stain

ASTM C1166 Flame propagation: No limit

 Anchor calculations with comparative analysis, report number 515087-1, prepared, signed and sealed by Luis Roberto Lomas P.E.



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Limitations and Conditions of use:

Maximum design pressure:
 Refer to approval drawing

 Approved configurations:
 Unlimited number of panels in unlimited configurations are approved as long as individual panel area does not exceed 24.06 ft² and uses vertical

conditions as shown in approval document.

Units must be glazed per ASTM E1300, with safety glazing.

This product is not rated to be used in the HVHZ.

This product is not impact resistant and requires impact protection in wind borne debris regions.

Frame and panel material to be extruded Aluminum 6063-T6.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03864.

Certification of Independence:

Please note that I do not have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I do not have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).

