## L. Roberto Lomas P.E.

# **Engineering Evaluation Report**

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**Report No.: 514133** 

**Manufacturer:** Centor North America Inc.

966-130 Corporate Blvd.

Aurora, IL 60502

Product Line: 400 Series/Model 405 Folding Outward Opening Door with Aluminum Trim, 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 08-03199, prepared, signed and sealed by Luis Roberto Lomas P.E.
- 2. Test report No.: UL-SV3063820170915 signed and sealed by Alexis Spyrou P.E.

UL LLC, Northbrook, IL 60062

AAMA/WDMA/CSA 101/I.S.2/A440-11

Design pressure: ±55.0psf Water penetration resistance 8.35psf

ASTM E1886-05 and ASTM E1996-09

ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 4 ASTM E1886/ E1996 Cyclic Load Test, ±55.0psf design pressure TAS 201-94 Large Missile Impact Test, Level D, Wind Zone 4

TAS 202 -94 Uniform Static Air Pressure, ±55.0psf design pressure, 8.35psf water penetration.

TAS 203-94 Cyclic Pressure loading ±82.5psf design pressure

- Anchor calculations, report number 514133-1, prepared, signed and sealed by Luis Roberto Lomas P.E.
- 4. Comparative analysis, report number 514133-2, prepared, signed and sealed by Luis Roberto Lomas P.E.

## Limitations and Conditions of use:

Maximum design pressure: Refer to approval drawing.

• Maximum unit size: Unlimited number of panels in unlimited configurations are approved as long as

individual panel area does not exceed 30.08 ft² and uses vertical conditions as shown in approval drawing, and maximum frame area does not exceed 294.27ft²

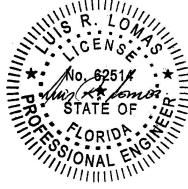
- Units must be glazed per ASTM E1300-04/09, according with glass details in approval drawing.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be Extruded Aluminum 6063-T6.

#### Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03199.

### Certification of Independence:

Please note that I don't 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 don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).



Luis R. Lomas, P.E. FL No.: 62514 11/13/2017