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Engineering Evaluation Report

Report No.: 514909

Manufacturer: Provia, LLC.
2150 State Route 39 West
Sugar creek, Ohio 44681

Product Line: 20 Gauge Steel Patio Door Inswing - Impact

Compliance:

The product mentioned above 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(a). The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-03752, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report No.: M4361.01-501-47 signed by Stephen D. Shank
Intertek, Springdale, PA
ASTM E1886 and ASTM E1996
Large Missile Impact, Level D, Wind Zone 3
Cyclic Load Test, ± 50.13 psf design pressure
3. Test report No.: M4271.01-501-47 signed by Stephen D. Shank
Intertek, Springdale, PA
ASTM E330
Design pressure: +40.0/-45.0psf with single point lock
 ± 50.13 psf with multipoint lock
4. Anchor calculations, report number 514909-1, prepared, signed and sealed by Luis Roberto Lomas P.E.
5. Evaluation and comparative analysis for alternate sill, report number 514581A, prepared, signed and sealed by Luis Roberto Lomas P.E.
6. Evaluation and comparative analysis for alternate panels, report number 514394A, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:

- Design pressure: +40.0/-45.0psf with single point lock
 ± 50.0 psf with multipoint lock
- Panel size: 35 3/4" x 94 15/16"
- Approved configurations: X, OX, XO, XX, OXO, XOO, OOX.
- Units must be glazed per ASTM E1300, according to glazing details in approval drawing.
- This product is not rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions up to wind zone 3.
- Frame material: Wood G=.46 minimum, Composite, Framesaver or Fusion Frame.
- Door frame material: Wood G.46 minimum or Framesaver or Fusion Frame.
- Door panel and sidelite sash material to be 20Ga. minimum steel with steel or fiberglass top and bottom rails.
- This system was not tested for water infiltration and must be installed only where the water requirement is not needed.
- Approved lock hardware:
 - Schlage F-Series door knob with Schlage B-Series deadbolt.
 - Emtek Residential Grade door hardware assembly.
 - Trillanium Multi-Point lock handle assembly.

Installation: Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03752.

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).

