

L. Roberto Lomas P.E.

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Engineering Evaluation Report

Report No.: 514909B

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

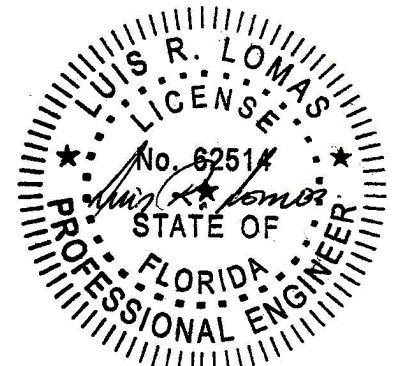
Product Line: 20 Gauge Steel Patio Door Inswing - Impact

Compliance:

The product listed herein complies with requirements of the current Florida Building Code.

Supporting Technical Documentation:

1. Approval document: drawing number 08-03752 Revision B, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report 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 M4271.01-501-47 signed by Stephen D. Shank
Intertek, Springdale, PA
ASTM E330 Design pressure: $+40.0/-45.0$ psf with single point lock.
 ± 50.13 psf with multipoint lock
4. Test Report P3164.01-501-47, signed by Stephen D. Shank
Intertek, Springdale, PA
(For Zeel Trim & ODL Evolve Trim)
ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 3. Cyclic Load Test, ± 50.13 psf design pressure
5. Test report P3162.02-501-47 signed by Stephen D. Shank
Intertek, Pittsburgh, PA
(For PanoLock Multi Point)
ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 3. Cyclic Load Test, ± 50.13 psf design pressure
6. Test report P3161.01-501-47 signed by Stephen D. Shank
Intertek, Pittsburgh, PA
(For 506 Foam)
ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 3
Cyclic Load Test, ± 50.13 psf design pressure
7. Test Report No.: 33376.01-109-12 signed and sealed by Joseph Allison
Molimo, LLC, York, PA
ASTM E1886/E1996 Large Missile Impact, Level D, Wind Zone 3
Cyclic Load Test, ± 55.14 psf design pressure
8. Test Report No.: 33377.01-109-12 signed by Joseph Allison
Molimo, LLC., York, PA
ASTM E1886/E1996 Large Missile Impact, Level D, Wind Zone 3
Cyclic Load Test, ± 55.14 psf design pressure
9. Anchor calculations, report number 514909-1, prepared, signed and sealed by Luis Roberto Lomas P.E.
10. Evaluation and comparative analysis for alternate sill, report number 514581A, prepared, signed and sealed by Luis Roberto Lomas P.E.
11. Evaluation and comparative analysis for alternate panels, report number 514394A, prepared, signed and sealed by Luis Roberto Lomas P.E.
12. Evaluation for Severe Weather Trim with Blind, report number 515240, 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
 ±50.0psf 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 water penetration resistance is not required.
- 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.
 - Panolock multipoint lockset.

Installation:

Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03752, Revision B.

When the product specified herein is installed within 3000 ft. of a saltwater coastline, all anchors and clips must comply with saltwater environment corrosion resistance requirements of FBC Chapter 17.

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).

