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Engineering Evaluation Report

Report No.: 514198A

Manufacturer: Solar Innovations, Inc.
31 Roberts Road
Pine Grove, PA 17963

Product Line: Series SI4100V Vinyl Composite Sliding Glass Door (OX & XO) 96" X 96" Impact

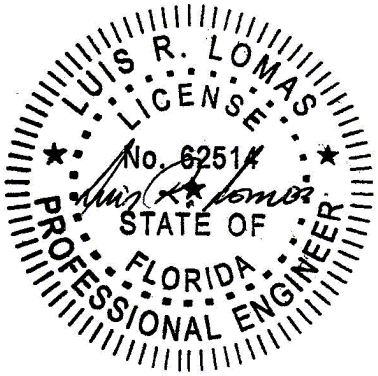
Compliance:
The above mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3.005 method 1(a). The product listed herein complies with requirements of the current Florida Building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

Supporting Technical Documentation:
1. Approval document: drawing number 08-03242 Revision A, prepared, signed and sealed by Luis Roberto Lomas P.E.
2. Test report No.: NCTL 310-20999-1 signed and sealed by Harold E. Rupp P.E.
   National Certified Testing Laboratories, Everett, WA.
   TAS 201 Large Missile Impact Test, Level D, Wind Zone 4
   TAS 202 Uniform Static Air Pressure, ±50.0psf design pressure, 7.5psf water penetration.
   TAS 203 Cyclic Pressure loading ±50.0psf design pressure
3. Report No.: NCTL 310-20999-3, -4 and -5 signed by Robert H Zeiders P.E.
   National Certified Testing Laboratories, Everett, WA.
   AAMA/WDMA/CSA 101/I.S.2/A440
   Design pressure: ±50.0psf
   Water penetration resistance 7.5psf
4. Report No.: NCTL 310-20999-2 signed by Robert H Zeiders P.E.
   National Certified Testing Laboratories, Everett, WA
   ASTM E1886/ E1996 Large Missile Impact, Level D, Wind Zone 4
   Cyclic Load Test, ±50.0psf design pressure
5. Anchor calculations, report number 514198-1A, prepared, signed and sealed by Luis Roberto Lomas P.E.
6. Comparative analysis, report number 514198-2, prepared, signed and sealed by Luis Roberto Lomas P.E.

Limitations and Conditions of use:
- Maximum design pressure: Refer to approval document.
- Panel size: 49 1/4" x 92 3/4"
- Units must be glazed per ASTM E1300 according to glazing 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 rigid PVC.

Installation:
Units must be installed in accordance with manufacturer's installation instructions and approval document 08-03242 Revision A.

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.
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11/17/2020