

W. W. Schaefer Engineering & Consulting, P.A. (CA #6809)

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ENGINEER'S EVALUATION REPORT #WWS-185

Prepared for:

Sierra Pacific Windows
575 S. Whelen Ave.
Medford, WI 54451
Phone: 800-433-4873

Prepared by:

Warren W. Schaefer, P.E.
Florida Professional Engineer #44135

Manufacturer: Sierra Pacific Windows

Product Category: Doors

Evaluation Method: 1-D (Engineer's evaluation)

Product model & name: FeelSafe Energy Saver Aluminum Clad Wood Out-swing Impact Doors

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1566

Door size and configuration restrictions and assembly requirements:

See drawing No. 1566 for size restrictions. Unless noted otherwise, door assembly is the full responsibility of each the manufacturer and their applicable quality assurance and shall be quality assured in accordance with the here-in referenced test reports.

Maximum allowable design pressure:

See drawing No. 1566

Installation requirements:

See drawing No. 1566

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24.

Mullions:

Mullion conditions stated in this approval have been tested in accordance with TAS-201, 202 & 203, ASTM E1886, ASTM E1996 & ASTM E330 and meet the requirements of AAMA 450 & FBC.

Wood Coatings:

All wood members shall be of an approved durable species or be treated in an approved method with an approved preservative per applicable codes and standards.

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203, ASTM E1886, ASTM E1996 & AAMA/WDMA/CSA 101/I.S.2/A440

Test Laboratory: Element Material Technology (Previously named Stork Twin City Testing Corporation)

Test report number: Stork reports 180-762 & TCT004127P-0139; Element reports ESP025782P-2183, ESP025782P-2183.1, ESP025782P-2183.2, ESP025782P-2183.3 & ESP034105P-2575.
Note: All HVHZ test reports have been signed & sealed by a Florida PE.

Compliance statement:

This product & its installations have been evaluated as required by the applicable Florida product approval rule and the Florida Building Code (FBC) and are found to be in compliance with each the rule, the Florida Building Code & all code required standards referenced here-in.

General report notes & system limitations:

1. All size, configuration & installation conditions shown in this report and the referenced drawing No. 1566 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Doors shall be constructed in accordance with the descriptions in this report, the referenced test reports and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in and outside the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply).
5. These doors are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. Any change to this product's components and/or assembly without the knowledge & consent of W. W. Schaefer Engineering & Consulting, P.A. and Warren W. Schaefer, P.E. shall void this evaluation/certification and thus the products Florida approval.

Quality Assurance Entity: Window & Door Manufacturers Association (WDMA)

Disclaimers:

1. The parts, components, assembly & performance of this product, and liability there-of are the sole responsibility of the manufacturer and their quality assurance and shall be as tested unless stated otherwise in this evaluation report or the uploaded approval drawing No. 1566. Neither W. W. Schaefer Engineering & Consulting, P.A. nor Warren W. Schaefer, P.E. claim any responsibility for said parts, components, assembly or performance and shall be deemed responsible only for the evaluation of the product as stated here-in.

OCT 26 2020

Warren W. Schaefer, P.E.
Florida P.E. #44135