

W. W. Schaefer Engineering & Consulting, P.A.

25601 Aysen Drive
Punta Gorda, FL 33983
Phone 561-346-5638

ENGINEER'S EVALUATION REPORT #WWS-253B

Prepared for:

Hope's Windows, Inc.
84 Hopkins Ave.
Jamestown, NY 14702-0580
Phone: 716-665-5124

Prepared by:

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

Manufacturer: Hope's Windows, Inc.

Product Category: Doors

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

Product model & name: Landmark 175 Steel Impact Out-Swing Door with Jamestown Stiles & Rails.

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1881B

Door size restrictions and assembly requirements:

See drawing NO. 1881B

Maximum allowable design pressure:

+/-55 PSF

Installation requirements:

See drawing No. 1881B

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapter 17

Coatings:

Coating of steel door members complies with FBC.
Steel coatings have been tested in accordance with ASTM D1654, D714, D4585, B117, G85, D5894 & D4541.

Glass:

All glass meets the current ASTM E1300 standard.

Test Standards applicable to the testing of these doors:
TAS-201, 202 & 203

Test Laboratories: Element Material Technology & Intertek

Test report numbers: P5399.01-201-18 R0 (to qualify alternate threshold only),
ESP151416P-1483, TCT004649P-0177.3, ESP011189P-1313.3 & M8208.01-201-18 R0
Note: All TAS test reports have been signed and sealed by a Florida PE.

Compliance statement:

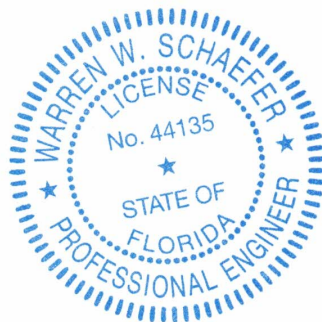
This product & its installations have been evaluated as required by the applicable Florida product approval rule and the Florida Building Code (FBC) and are found to be in compliance with each the rule, the Florida Building Code & all code required standards referenced here-in.

General report notes & system limitations:

1. All size & installation conditions shown in this report and the referenced drawing No. 1881B 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, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of 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 per the current ASCE 7 standard).
5. These doors are both small & large missile impact rated for use in wind zone 4 & missile level "D", and need not be shuttered.
6. Any change to this product's components and/or assembly or its Florida approval 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: National Accreditation and Management Institute (NAMI)

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



Digitally signed
by Warren W
Schaefer
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