

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

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Palm Beach Gardens, FL 33418
Phone (561)744-3424

ENGINEER'S EVALUATION REPORT #WWS-232

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: Hopkins Series Out-Swing Impact Bi-Fold Door

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1843

Door size restrictions and assembly requirements:

See drawing No. 1843

Maximum allowable design pressure:

See drawing No. 1843

Installation requirements:

See drawing No. 1843

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24

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.

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203, AAMA/WDMA/CSA101/I.S.2/A440, ASTM E1886 & ASTM E1996

Test Laboratory: Testing Evaluation Laboratories, Inc. & Element Material Technology
(Previously named Stork Twin City Testing Corporation)

Test report numbers:

TEL 07-01050229, TEL 07-01050230, TEL 07-01050231 & ESP012126P

Note: All HVHZ test reports have been signed & sealed by a Florida PE.

General report notes & system limitations:

1. All size & installation conditions shown in this report and the referenced drawing No. 1843 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" locations and need not be shuttered.
6. This product is not water infiltration resistance rated and shall be restricted as specified in the attached drawing No. 1843.
7. These door units are not approved for use where water infiltration resistance is required by the door. Unless units are installed in non-habitable areas where the unit & the area are designed to accept water infiltration, units shall be installed only at locations protected by a canopy or overhang where-by the overhang(oh) ratio is equal to or more than 1.0 per FBC.

Quality Assurance Entity: National Accreditation and Management Institute

JUL 01 2020

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

