

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

7480 150th Court North
Palm Beach Gardens, FL 33418
Phone (561)744-3424

ENGINEER'S EVALUATION REPORT #WWS-293

Prepared for:

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092
Phone: 770-449-5555

Prepared by:

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

Manufacturer: Kawneer Company, Inc.

Product Category: Doors

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

Product model & name: Flushline Impact Doors With Trifab 451T Frame

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1914

Door size restrictions and assembly requirements:

See drawing No. 1914

Maximum allowable design pressure:

See drawing No. 1914

Installation requirements:

See drawing No. 1914

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17, 24 & 26

Glass:

All glass meets the current ASTM E1300 standard.

Mullions:

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

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203, ASTM E330, ASTM E331, ASTM E1886 & ASTM E1996

Test Laboratory: Intertek Architectural Testing, Inc.

Test report numbers: F2258.01-109-18

Note: The HVHZ test report has 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. 1914 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 3 or 4 & missile level "D" locations and need not be shuttered (double doors are wind zone 3 rated; single doors are wind zone 4 rated; transoms are wind zone 3 rated).
6. Dry glazing gaskets are in accordance with ASTM C864, ASTM C509, ASTM C1115 or ASTM E2203 per FBC chapter 24.
7. Debridging/thermal breaks are in accordance with ASTM G26, D638, D2843, D635 & D1929 per FBC chapter 26.
8. All safety glass requirements are met per FBC chapter 24.
9. 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: (ATI) Architectural Testing, Inc.

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

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