

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-158

Prepared for:

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092-3503
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: 2000T Terrace Small & Large Missile Out-Swing Impact Door

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1678

Door size restrictions and assembly requirements:

See drawing NO. 1678

Maximum allowable design pressure:

+/-90 psf (varies with glass type per drawing No. 1678)

Installation requirements:

See drawing No. 1678

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203

ASTM E283, E330, E331, E547, E1886 & E1996

AAMA 1304

Test Laboratory: Hurricane Test Laboratory, LLC.

Test report numbers: G049-1106-09 & G049-0705-09

General report notes & system limitations:

1. All size & installation conditions shown in this report and the referenced drawing No. 1678 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 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. Dry glazing gaskets were tested in accordance with ASTM C864 & C509 per FBC .
7. Debridging/thermal breaks were tested in accordance with ASTM G155, D638, D2843, D635 & D1929 per FBC.

Quality Assurance Entity: (ATI) Architectural Testing, Inc., York, PA

JAN 06 2015

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

