

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
DR-661

Effective Date: January 1, 2014
Reevaluation Date: **February 2015**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

HPS® High Performance Aluminum Sliding Glass Doors, Impact Resistant, manufactured by
Kawneer Company, Inc.
555 Guthridge Court
Norcross, Georgia 30092-3503
Telephone: (770) 840 - 6426

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

This evaluation report is for the HPS® High Performance aluminum sliding glass doors.

General Description:

This evaluation report includes the following aluminum sliding glass doors assemblies:

4-Panel Sliding Glass Doors
3-Panel Sliding Glass Doors
2-Panel Sliding Glass Doors

Allowable Dimensions:

- **Overall Dimensions:**
 - **4-Panel Doors:** 180" x 107"
 - **3-Panel Doors:** 144" x 107"
 - **2-Panel Doors:** 96" x 107"
- **Maximum Glass Daylight Opening Sizes:**
 - **4-Panel Doors:** 41-21/32" x 100-3/16"
 - **3-Panel Doors:** 44-29/32" x 100-3/16"
 - **4-Panel Doors:** 44-1/4" x 100-3/16"

Product Identification: A Kawneer label will be affixed to the door assembly.

Small Missile Impact: The label includes the manufacturer's name (Kawneer); the product name (HPS Aluminum Sliding Glass Door); the design pressure rating, drawing #1451T; and that the product complies with ASTM E 330, ASTM E 1886, ASTM E 1996, Small Missile, Level A.

LIMITATIONS

Design Drawings:

HPS High Performance aluminum sliding glass doors complying with the requirements for small missile impact shall comply and be installed in accordance with the following drawing:

Drawing No. 1451T, titled "HPS Small Missile Impact Sliding Glass Door)," Sheets 1 thru 5 of 5, dated March 19, 2013, signed and sealed by Warren W. Schaeffer., P.E on December 10, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Fabrication and Assembly: Kawneer HPS High Performance aluminum sliding glass doors are fabricated and assembled in the factory. The sliding glass doors are glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design pressure (DP): ± 95 psf

Impact Resistance:

Small Missile Resistance: These assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I** and **Seaward** zones. These assemblies have passed an impact criteria equivalent to Missile Level A specified in ASTM E 1996-04. These assemblies shall be installed at a height of 30 feet or greater on the structure as long as the design pressure rating for the assembly is not exceeded. These assemblies will not need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Other Assemblies:

- Door assemblies with width and height dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified.

INSTALLATION INSTRUCTIONS

General: The assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available in the following document "HPS® Sliding Doors Installation Instructions," by Kawneer, dated March, 2009.

Installation:

Wall Framing Construction: The aluminum storefront system may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 3,000 psi)
- Wood dimension lumber (minimum Southern Yellow Pine)
- Steel studs (minimum 16 gauge, 33 ksi)
- Steel (minimum 1/8" thick, A36 (minimum Fy = 36 ksi))

Fastener Requirements:

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.