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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

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<th>Evaluation ID:</th>
<th>CWSF-32</th>
<th>Effective Date:</th>
<th>September 1, 2021</th>
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<td>September 2025</td>
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**Product Name:** IR 501 Aluminum Store front Systems, Impact Resistant

**Manufacturer:** Kawneer Company, Inc.  
Technology Park / Atlanta  
555 Guthridge Court  
Norcross, GA 30092  
(770) 449-5555

**General Description:**
This evaluation report is for the IR 501 aluminum store front system. The system is used for commercial installations. This evaluation report includes the following storefront assemblies:

- Multiple Fixed Panel Store Front Assembly
- Store Front Assembly with Doors and Transom
- Store Front Framing with Doors & Eyebrow Transoms
- Store Front Framing with Doors & Rectangle Transoms

**Doors:** Kawneer doors used with these assemblies must be listed in separate TDI product evaluation reports.
Product Identification: A Kawneer label will be affixed to the store front assembly. The label includes the manufacturer's name (Kawneer); the product name (IR 501 Framing System); that the design pressures and assembly size are per TDI drawing 1461T; the test standards (ASTM E 330, ASTM E 1886, ASTM E 1996, TAS 201, TAS 202, TAS 203); and the Missile Level (Large Missile Impact Rated-Zone 4, Level D).


Limitations:
Design Drawings: Store front assemblies must comply and be installed in accordance with one of the following design drawing:

- Drawing No. 1461T; “IR501 Aluminum Store Front System-Large & Small Missile Impact;” Sheets 1 thru 10 of 10; dated January 29, 2013; revision C1 dated March 8, 2021; signed and sealed by Warren W. Schaefer, P.E on March 8, 2021. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: The Kawneer IR 501 Aluminum Store front Systems are fabricated in the factory. The aluminum curtain wall systems are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design Pressure (DP): The store front system has a maximum design pressure rating of +70 / -70 psf. Refer to the approved drawing for specific design pressure requirements.

If the store front system is used with doors, then the design pressure rating of the complete assembly will be the lesser of the allowable design pressure rating for the doors specified in a separate evaluation report and the storefront system in this evaluation report.

Impact Resistance: The store front system satisfies TDI’s criteria for protection from windborne debris. These assemblies passed the equivalent of Missile Level D specified in ASTM E 1996-14a. Install these assemblies at any height on the structure that does not exceed the assembly’s design pressure rating. The assembly may not be installed below a height of 30 feet on essential facilities as defined in ASCE 7-16.

Acceptance of Other Assemblies:
- The approved drawing specifies the limitations on overall width.
- Assemblies must not exceed the heights shown on the approved drawing.
- Doors used with these assemblies must be listed in separate TDI product evaluation reports.
Installation Instructions:

General: Prepare and install the assembly in accordance with Kawneer’s installation instructions and the approved drawings specified in this evaluation report. Detailed installation instructions are available from Kawneer.

Installation:

Wall Framing Construction: The aluminum store front 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)
- CMU (concrete filled)
- Metal stud (minimum 18-gauge, Fy=33 ksi)
- steel (minimum 1/8” thick, Fy=36 ksi)
- wood (minimum specific gravity, SG=0.55)

Refer to the appropriate design drawing for specific wall construction requirements.

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: Keep the manufacturer’s installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.