

Product Evaluation

WIN2639 | 0422

Engineering Services Program

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.

Evaluation ID: WIN-2639

Effective Date: April 1, 2022

Re-evaluation Date: February 2026

Product Name: Series 8225TL Thermally Broken Aluminum Project-Out Windows, Impact Resistant

Manufacturer: Kawneer Company, Inc.
Technology Park/ Atlanta
555 Guthridge Court
Norcross, GA 30092-3503
(770) 449-5555

General Description:

The 8225TL aluminum windows are used for commercial installation. This evaluation report includes the following assemblies:

- Individual Project-Out Windows

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

- **Large Missile Impact Rated:** The label includes the manufacturer's name (Kawneer); the product name (8225TL Thermal Windows (Project-Out)); the design pressure (+/-65 psf); the assembly size per TDI drawing 1615T; the test standards (ASTM E330, ASTM E1886, ASTM E1996, TAS 201, TAS 202, TAS 203); and the Missile Level (Large Missile Impact Rated-Zone 4, Missile Level D).
- **Small Missile Impact Rated:** The label includes the manufacturer's name (Kawneer); the product name (8225TL Thermal Windows (Project-Out)); the design pressure (+/-65 psf); the assembly size per TDI drawing 1615T; the test standards (ASTM E330, ASTM E1886, ASTM E1996, TAS 201, TAS 202, TAS 203); and the Missile Level (Small Missile Impact Rated-Zone 4, Missile Level A).

Compliance: The window assemblies passed test criteria equivalent to ASTM E330-14, ASTM E1886-13a, and ASTM E1996-14a.

Limitations:

Design Drawings: The window assemblies must comply with and be installed in accordance with the following design drawings:

Drawing No. 1615T, titled "8225TL Large & Small Missile Impact Project-Out Window;" Sheets 1 thru 3 of 3; dated March 3, 2021; signed and sealed by Warren W. Schaefer, P.E. on March 3, 2021. This evaluation report refers to the stated drawing as the approved drawing.

Fabrication and Assembly: Kawneer window systems are fabricated in the factory. The aluminum window system is 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 aluminum window system has a maximum design pressure rating of +65 / -65 psf. Refer to the approved drawing for specific design pressure requirements.

Impact Resistance: The window system satisfies TDI's criteria for protection from windborne debris. These assembly passed the equivalent of Missile Level A and D specified in ASTM E1996-14a.

Assemblies passing Missile D may be installed at any height on the structure that does not exceed the assembly's design pressure rating. For essential facilities, the assembly may not be installed below a height of 30 feet in Wind Zone 3 and may be installed at all heights in Wind Zone 2 as defined in ASTM E 1996-14a.

Assemblies passing Missile Level A may be installed at heights greater than 30 feet above ground level that does not exceed the assembly's design pressure rating. The assembly may not be installed on essential facilities as defined in ASTM E 1996-14a.

Installation Instructions:

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

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

- Concrete (minimum compressive strength: 2,500 psi)
- Wood (minimum specific gravity, SG=0.55)
- Steel (minimum 1/8" thick, Fy=36 ksi)
- Metal stud (minimum 16 gauge, 50 ksi)
- Aluminum (minimum 1/8" thick, 6063-T5)

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

Fastener Requirements:

Refer to the approved drawing for anchor layout and notes.

Refer to the approved drawing for the minimum embedment depths for the fasteners and the minimum edge distanced (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Installation Instructions: General installation instructions are specified in the "8225TL/8225TLF Thermal Windows Installation Instructions" document 225990EN, dated May 2019; published by Kawneer.

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.