TDI | Texas Department of Insurance

PO Box 12030 | Austin, TX 78711 | 800-578-4677 | tdi.texas.gov

Product Evaluation

DR1190 | 0322

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: DR-1190

Effective Date: March 1, 2022
Re-evaluation Date: March 2026

Product Name: AA3200 IR Thermally Broken Aluminum Sliding Glass Doors, Impact Resistant

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

General Description: The AA3200 IR aluminum sliding glass doors are used for commercial installations. This evaluation report includes the following assemblies:

- Single doors
- Double doors

Applicable door assembly combinations:
O, OX, XO, XX, OO, OXO, XOO, OOX, XOX, OOO, OXXO, OOOO, XOOX

Product Identification: A Kawneer label will be affixed to the door assembly. The label includes the following information:

AA3200 IR Thermal Sliding Glass Doors (Low Pressure)-Wet and Dry Glazing, LMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200 IR Thermal Sliding Doors (Low Pressure)); the design pressures (+/-70 psf); the assembly size are per TDI drawing 1707T; 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).

AA3200 IR Thermal Sliding Glass Doors (Low Pressure)-Wet and Dry Glazing, SMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200 IR Thermal Sliding Doors (Low Pressure)); the design pressures (+/-70 psf); the assembly size are per TDI drawing 1707T; 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).

AA3200 IR Thermal Sliding Glass Doors (Medium Pressure)- Wet and Dry Glazing, LMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200 IR Thermal Sliding Doors (Medium Pressure)); the design pressures (+/-90 psf); and assembly size are per TDI drawing 1706T; the test standards (ASTM E330, ASTM E1886, ASTM E1996, TAS 201, TAS 202, TAS 203); and the Missile Level (Small and Large Missile Impact Rated-Zone 4, MissileLevel D).

AA3200 IR Thermal Sliding Glass Doors (Medium Pressure)- Wet and Dry Glazing, SMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200 IR Thermal Sliding Doors (Medium Pressure)); the design pressures (+/-90 psf); the assembly size are per TDI drawing 1706T; 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).

AA3200 IR Thermal Sliding Glass Doors (High Pressure)- Wet and Dry Glazing, LMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200IR Thermal Sliding Doors (High Pressure)); the design pressures (+/-135 psf); the assembly size are per TDI drawing 1705T; the test standards (ASTM E330, ASTM E1886, ASTM E1996, TAS 201, TAS 202, TAS203); and the Missile Level (Large Missile Impact Rated-Zone 4, Missile Level D).

AA3200 IR Thermal Sliding Glass Doors (High Pressure)- Wet and Dry Glazing, SMI: The label includes the manufacturer's name (Kawneer); the product name (AA3200IR Thermal Sliding Doors (High Pressure)); the design pressures (+/-135 psf); the assembly size are per TDI drawing 1705T; the test standards (ASTM E330, ASTM E1886, ASTM E1996, TAS 201, TAS 202, TAS203); and the Missile Level (Small Missile Impact Rated-Zone 4, Missile Level A).

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

Limitations:

Design Drawings:

The door assemblies must comply with and be installed in accordance with the following design drawings:

Drawing No. 1707T, titled "AA-3200-IR Low Pressure Sliding Glass Doors (LMI & SMI);" Sheets 1 thru 10 of 10; dated February 8, 2021; signed and sealed by Warren W. Schaefer, P.E. on February 9, 2021. This evaluation report refers to the stated drawings as the approved drawings

Drawing No. 1706T, titled "AA-3200-IR Medium Pressure Sliding Glass Doors (LMI & SMI);" Sheets 1 thru 10 of 10; dated February 8, 2021; signed and sealed by Warren W. Schaefer, P.E. on February 9, 2021. This evaluation report refers to the stated drawings as the approved drawings.

Drawing No. 1705T, titled "AA-3200-IR High Pressure Sliding Glass Doors (LMI & SMI);" Sheets 1 thru 10 of 10; dated February 8, 2021; signed and sealed by Warren W. Schaefer, P.E. on February 9, 2021. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: Kawneer door systems are fabricated in the factory. The aluminum door systems are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Hardware: Requirements for door hardware are specified on the approved drawings.

Design Pressure (DP):

AA3200 IR Thermal Sliding Glass Doors (Low Pressure)-Wet and Dry Glazing: The aluminum door systems have a maximum design pressure rating of +70 / -70 psf. Refer to the approved drawing for specific design pressure requirements.

AA3200 IR Thermal Sliding Glass Doors (Medium Pressure)-Wet and Dry Glazing: The aluminum door systems have a maximum design pressure rating of +90 / -90 psf. Refer to the approved drawing for specific design pressure requirements.

AA3200 IR Thermal Sliding Glass Doors (High Pressure)-Wet and Dry Glazing: The aluminum door systems have a maximum design pressure rating of +135 / -135 psf. Refer to the approved drawing for specific design pressure requirements.

Impact Resistance:

AA3200 IR Thermal Sliding Glass Doors (Low, Medium, High Pressure)-Wet and Dry Glazing, LMI: The door systems satisfy TDI's criteria for protection from windborne debris. These assemblies passed the equivalent of Missile Level D specified in ASTM E1996-14a. Install these assemblies 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.

AA3200 IR Thermal Sliding Glass Doors (Low, Medium, High Pressure)- Wet and Dry Glazing, SMI: The door systems satisfy TDI's criteria for protection from windborne debris. These assemblies passed the equivalent of Missile Level A specified in ASTM E 1996-14a. The assemblies must 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 ASCE 7-16.

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.

Wall Framing Construction: The door systems 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)
- Wood (minimum specific gravity, SG=0.55)
- Steel (minimum 1/8" thick, Fy=36 ksi)
- Metal stud (minimum 16 gauge, 50 ksi)
- Aluminum (minimum 0.100" thick, 6063-T5)

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.

Installation Instructions: General installation instructions are specified in the "AA 3200 High Performance AA 3200 Impact Resistant Installation Instructions" document 594970EN, dated November 2020, 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.