

Product Evaluation

CWSF65 | 0120

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: CWSF-65

Effective Date: January 1st, 2020

Re-evaluation Date: October 2024

Product Name: Stormwall XL Hurricane Resistant Aluminum Curtain Wall System–Wet Glazed-SMI, Impact Resistant

Manufacturer: US Aluminum
Division of C.R. Laurence Co., Inc.
2503 E. Vernon Ave.
Los Angeles, CA 90058
(323) 588-1281

General Description:

The curtain wall system is an aluminum frame system used for commercial curtain wall installations. This evaluation report includes the following curtain wall assemblies:

- Single Span Curtain Wall
- Twin Span Curtain Wall

Doors: Doors referenced in this product evaluation report are US Aluminum door products. The US Aluminum doors used with these assemblies must be listed in a separate TDI product evaluation report.

Product Identification: A US Aluminum label will be affixed to the curtain wall assembly. The label includes the manufacturer's name (US Aluminum); the product name (StormWall XL Hurricane Resistant Curtain Wall Wet Glazed-SMI-HVHZ); Dimensions and design pressure are per drawing 08-03025; and that the product complies with ASTM E 330-02; ASTM E 1886-05; ASTM E 1996-09 Missile Level A.

Limitations:

Design Drawings:

Curtain Wall assemblies must comply and be installed in accordance with the following design drawing:

Drawing No. 08-03025; "StormWall XL Hurricane Resistant Curtain Wall-Wet Glazed-SMI," Sheets 1 thru 24 of 24; dated December 7, 2016; signed and sealed by Luis R. Lomas, P.E on September 16, 2019. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: The curtain wall assemblies are fabricated in the factory. The curtain wall 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 curtain wall assembly has a maximum design pressure rating of +100 psf / -100 psf. Refer to the approved drawings for specific design pressure requirements.

Assembly Geometry: The maximum overall height and the maximum overall width for the windows is specified on the drawings.

Impact Resistance: The assembly satisfies the TDI's criteria for protection from windborne debris. These assemblies passed Missile Level A as specified in ASTM E 1996. An impact protective system is not required when the assembly is installed at a height of 30 ft or greater above ground level. An impact protective system is required when the assembly is installed at a height less than 30 ft above the ground level.

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

- Concrete (minimum compressive strength: 2,000 psi)
- Wood: Minimum specific gravity of 0.42
- Masonry: Grout Filled Block Per ASTM C90 with $f'm = 2,000$ psi minimum.
- Metal Structure: Steel 1/4" thick minimum $FY=33$ ksi/ $FU=52$ 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: 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.