

Product Evaluation

MU10 | 0320

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: MU-10

Effective Date: March 1, 2020

Re-evaluation Date: March 2024

Product Name: Mullied Window Assemblies Using "C-Class" Series Mullions for Vinyl Windows, Non-Impact Resistant and Impact Resistant

Manufacturer: Associated Materials
3773 State Rd.
Cuyahoga Falls, OH 44223
(330) 922-532

General Description:

This evaluation report is for horizontal and vertical mullied windows using extruded aluminum mullions manufactured by Associated Materials.

The mullied window assemblies evaluated in this report are for impact resistant and non-impact resistant windows manufactured by Associated Materials.

Mullion Configurations:

This evaluation report includes the following mullion configurations:

Vertical Mullions. "C-Class" Series Structural mullions. Used for mulling together windows vertically (windows side-by-side).

Mullion Components:

Mullion: Steel mullion bar. The yield strength is 50 ksi.; The dimensions are shown on the approved drawings.

Mullion Anchor Bracket: Manufactured from 6063-T6 aluminum. The dimensions are shown on the approved drawings.

Limitations:

Fabrication and Assembly: The mullion assembly may be mullioned together at the factory and shipped as a complete assembly or they may be mullioned together at the job site.

Design Drawings:

Construct and install the mullion assembly in accordance with one or more of the design drawings based on the configuration of the mullion assembly:

- Drawing No. TX-4360; sheets 1 through 6 of 6; titled ""C-Class" Series Structural Mullion" dated August 8, 2013; Revision 1 dated November 7, 2019; signed and sealed by Lyndon F. Schmidt, P.E. on November 7, 2019.

This evaluation report will refer to the stated drawings to as "Approved Drawings."

Maintain a copy of the approved drawings at the job site.

Maximum Window Sizes:

The height and width of each individual window in the mullion assembly must not exceed the maximum allowable height and width specified on the certification program labels for the individual windows.

The maximum allowable dimensions for windows in the mullion assembly must be as specified on the approved drawings.

Design Pressure Rating:

The design pressure rating for the mullion assembly is dependent on the mullion load rating based on the mullion span, the dimensions of the individual windows in the mullion assembly, and the design pressure rating for the individual windows in the mullion assembly.

Refer to the approved drawings to determine the mullion load rating for the mullion assembly based on the configuration of the mullion assembly.

Use the following procedure to determine the design pressure rating for the mullied window assembly:

1. Determine design pressure rating for the mullion using the Design Pressure Rating charts in the approved drawings. **NOTE:** In no case must the maximum allowable dimensions of the individual windows, as specified on the certification program labels and in the TDI product evaluation reports, exceed the dimensions in the approved drawings.
2. Review the design pressure rating on the certification program label and in the TDI product evaluation report for each individual window of the mullied assembly.
3. If the design pressure rating for each individual window of the mullied assembly is greater than the design pressure rating for the mullions determined from the approved drawings, then the design pressure rating of the mullied assembly is the design pressure capacity determined from the table in the approved drawings.
4. If the design pressure rating for any of the individual windows is less than the design pressure rating determined from the approved drawings, then the design pressure rating of the mullied assembly must be the design pressure rating of the lowest rated individual window in the assembly.

Impact Resistance:

Use the mullions with either non-impact resistant or impact resistant windows.

If using mullions with non-impact resistant windows, then protect the mullied window assemblies with an impact protective system when installing the product in areas that require windborne debris protection.

If using mullions with impact resistant windows, then the mullied window assemblies will not require protection with an impact protective system.

Refer to the TDI evaluation reports for each of the windows in the mullied assembly to determine the locations where the mullied window assemblies can be used.

Product Identification:

A certification program label will be affixed to each individual window of the mullied assembly.

Refer to the TDI evaluation report for each individual window in the mullied assembly for the information specified on the certification program label.

NOTE: The certification program label is for the performance characteristics of the individual windows in the mullied assembly and not for the mullied assembly. The design pressure rating for the mullied assembly is as specified in the Limitations Section of this evaluation report.

Installation:

General: Install the mullied assembly in accordance with the manufacturer's installation instructions, the approved drawings, and this evaluation report. Detailed drawings and installation instructions are available from the manufacturer.

Attachment of Mullions to Wall Framing: Anchor the mullions to the wall framing with the mullion anchor bracket as specified on the approved drawings. Refer to the approved drawings for the specific attachment requirements.

Attachment of Window Frames to Mullions: Anchor the window frames to the mullions with fasteners. Refer to the approved drawings for the specific attachment requirements.

Attachment of Mullied Assembly to Wall Framing: The TDI evaluation reports specify the requirements for the wall framing for the individual windows. Secure the mullied assembly to the wall framing using the type, size, quantity, and spacing of fasteners as specified in the TDI evaluation reports for the individual windows. Where a window unit joins with a mullion, use the mullion location as a point of reference for locating fasteners at window corners.

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.