



Product Evaluation

CWSF49 | 1016

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-49

Effective Date: October 1, 2016

Re-evaluation Date: September 2020

Product Name: CW 400TU Ultra Thermal Aluminum Curtain Wall System, Non-Impact Resistant

Manufacturer: Tubelite, Inc.
3056 Walker Ridge Drive NW
Walker, MI 49544
(800) 866-2227

General Description:

The CW 400TU Ultra Thermal Aluminum Curtain Wall System is an aluminum wall system used for commercial installations. This evaluation report includes the following wall system assemblies:

- Twin-Span Curtain Wall, Captured and Structural Sealant Glazed
- Captured Outside Corner
- Structural Sealant Glazed Inside Corner

Product Identification: A Tubelite, Inc. label will be affixed to the wall system assembly.

Products Installed in Accordance with Drawing Tubelite CW 400TU Captured & SSG Non-Impact Curtain Wall System: The label includes the manufacturer's name (Tubelite, Inc.); the product name (CW 400TU Ultra-Thermal Captured & SSG Non-Impact Curtain Wall System); that the design pressure and maximum size are per the drawing "Tubelite CW 400TU Captured & SSG Non-Impact Curtain Wall System"; and that the product complies with ASTM E330, ASTM E331 and AMA 201.

Limitations:**Design Drawings:**

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

Drawing "Tubelite CW 400TU Captured &SSG Non-Impact Curtain Wall System," Sheets C1,E1.0,E2.0, D-1.0, D1.1, D-2.0, D-2.1, D-2.2, D-2.3, D-3.0, D-3.1, D-3.2, D-3.3, D-3.4, D-4.0, D-4.01, D-4.1, D-4.2, D-4.3, D-4.4, D-4.5 AND P-1.0 dated 02.18.16 Rev A dated 2.18.16, signed and sealed by Lucas A. Turner, P.E on 2/19/2016. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: Tubelite, Inc. aluminum curtain wall 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 allowable design pressure rating for the storefront system is specified on the design drawing. The maximum allowable design pressure rating is +40 / -40 psf. Refer to approved drawing for specific design pressure requirements.
- If the storefront 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 and the storefront system in this evaluation report.

Impact Resistance:

- The curtain wall system is non-impact resistant. These assemblies require protection with an impact protective system when installed in areas that require windborne debris protection

Acceptance of Other Assemblies:

- The approved drawings specify the limitations on overall width.
- Assemblies must not exceed the heights shown on the approved drawings.
- 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 the approved drawings specified in this evaluation report. Detailed installation instructions are available from Tubelite, Inc.

Installation:

Wall Framing Construction: Mount the aluminum storefront system to several types of wall framing construction. The types of wall framing construction allowed include:

- concrete (minimum compressive strength: 3,000 psi)
- steel (minimum 1/4" thick, Fy = 33 ksi)
- aluminum (minimum 1/4" thick, 6063-T5)
- wood (Southern Yellow Pine, minimum S.G. = 0.55)

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 and the approved drawings available at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.