

## Product Evaluation

CWSF66 | 0920

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-66

**Effective Date:** September 1, 2020

**Re-evaluation Date:** September 2024

**Product Name:** RW-5000 Ribbon Window Wall and RW-5100 Ribbon Window Wall Systems, Impact Resistant

**Manufacturer:** Oldcastle BuildingEnvelope  
803 Airport Rd.  
Terrell, TX 75160  
(972) 551-6295

### General Description:

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

- RW-5000 Window Wall
- RW-5100 Window Wall

**Doors:** Oldcastle BuildingEnvelope doors used with these assemblies must be listed in a separate TDI product evaluation report.

**Product Identification:** An Oldcastle BuildingEnvelope label will be affixed to the window wall assembly. The label includes the following information:

**RW-5000:** RW-5000 Window Wall – Large & Small Missile Impact  
Monolithic Laminated Wet & Dry Glazed  
Design Pressures and Dimensions per OBE004  
Complies with TAS-201, TAS-202, TAS-203

**RW-5100:** RW-5000 Window Wall – Large & Small Missile Impact  
Insulated Laminated Wet & Dry Glazed  
Design Pressures and Dimensions per OBE005  
Complies with TAS-201, TAS-202, TAS-203

**Limitations:**

**Design Drawings:**

Window wall assemblies must comply and be installed in accordance with the following design drawings:

**RW-5000:** Drawing No. OBE004; "RW-5000 Ribbon Window System Large & Small Missile Impact Resistant" Sheets 1 thru 7 of 7; dated March 10, 2015; signed and sealed by Hermes F. Norero, P.E on March 10, 2020. This evaluation report refers to the stated drawings as the approved drawings.

**RW-5100:** Drawing No. OBE005; "RW-5100 Ribbon Window System Large & Small Missile Impact Resistant" Sheets 1 thru 7 of 7; dated March 10, 2015; signed and sealed by Hermes F. Norero, P.E on March 10, 2020. This evaluation report refers to the stated drawings as the approved drawings.

**Fabrication and Assembly:** The window wall assemblies are fabricated in the factory. The window 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 window wall assembly has a maximum design pressure rating of +70 psf / -80 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:** These assemblies satisfy the TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**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: 3,000 psi)
- Steel (1/8" thick minimum; FY=36 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.