

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION WIN-1323

Effective October 1, 2010

*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 shall be subject to reevaluation **January 2012**.*

*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.*

**Series C3550 Aluminum Single Hung Windows, Individual, Impact Resistant** manufactured by

**Columbia Commercial Building Products**  
**1200 E. Washington Street**  
**Rockwall, Texas 75087-4717**  
**Telephone: (972) 771-7100**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The Series C3550 window is an aluminum single hung window. The aluminum single hung window evaluated in this report is an individual, impact resistant window. This evaluation report includes aluminum single hung windows based on the following tested construction:

### General Description:

System	Description	Label Rating
1	Series C3550 Aluminum Single Hung Window; Individual; (O/X)	H-AW65 48 x 72 AAMA 506-2006 Missile Level D

### Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	48" x 72"	44 1/2" x 36 7/16"	41 5/8" x 30 5/8"

### Glazing Description:

System	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1	IG-1	GM-1

Note: <sup>1</sup> See the "Glass Construction Key" for the glazing construction.

<sup>2</sup> See the "Glazing Method Key" for the glazing method description.

**Glass Construction Key:**

IG-1: The fixed sash and the operable sash contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of a 1/4" annealed glass lite and a laminated glass unit separated by a spacer system. The laminated glass unit is comprised of two double strength (1/8") annealed glass lites with a 0.090" Saflex PVB laminate interlayer. The glass thickness used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

**Glazing Method Key:**

GM-1: The insulating glass units are interior glazed with Dow Corning 995 structural silicone and an aluminum glazing bead with a drive in wedge gasket.

**Frame Construction:** The frame members are manufactured of extruded aluminum. The frame corners are coped, butted and fastened with four (4) screws per corner. The fixed interlock is attached to the frame jambs with three (3) screws per connection. The frame members are thermally broken.

**Sash Construction:** The operable and the fixed sash are manufactured of extruded aluminum. The sash corners are coped, butted and fastened with two (2) screws per corner. The sash members are thermally broken.

**Hardware:**

- Automatic spring locks; two (2) required; Located 12 inches from each end of the sash bottom rail.
- Cam locks; two (2) required; Located 12 inches from each end of the sash interlock.
- Spiral type balance; two (2) required; Located in each side jamb.

**Reinforcement:** None.

**Product Identification:** A certification program label (NAMI) will be affixed to the window. The certification program label shall include the manufacturer's name; the product name (**C3550 Impact Rated Single Hung Window**); performance characteristics; the approved inspection agency (NAMI); and the applicable standards: ANSI/AAMA/NWDA 101/I.S.2-97 and AAMA 506-2006.

**LIMITATIONS**

**Design pressures:**

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	48	72	±65

**Impact Resistance:** The window assembly satisfies the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** and the **Seaward zone**. The window assemblies passed Missile Level D specified in ASTM E 1996-05. The window assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These window assemblies will not need to be protected with an impact protective system.

**Acceptance of Smaller Assemblies:** Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

## INSTALLATION INSTRUCTIONS

**General:** The window assembly shall be installed in accordance with the manufacturer's installation instructions. Detailed drawings and installation instructions are available from the manufacturer.

**Installation:** The wood framing members shall be minimum Southern Yellow Pine dimension lumber. The window shall be secured to the wall framing through the window frame with minimum No. 10 x 3" screws. The fasteners shall be located approximately 6 inches from each corner and approximately 12 inches on center through the head and sill, and approximately 4 inches from each corner and approximately 12 inches on center through the jambs. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.