

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1237

Effective January 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 **March 2010**.*

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.

CertainTeed New Castle XT Vinyl Single Hung Windows, Mulled, Non-impact Resistant,
manufactured by

MI Windows and Doors, Inc.
650 West Market Street
Gratz, PA 17030-0370
Telephone: (717) 365-3300

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 CertainTeed New Castle XT window is a vinyl single hung new construction window. The vinyl single hung windows evaluated in this report are mulled, non-impact resistant windows. This product evaluation report is for vinyl single hung windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	CertainTeed New Castle XT Vinyl Single Hung Window; Triple Mullered; (O/X O/X O/X)	H-LC50 109 x 72 AAMA 450-06

Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	109" x 72"	Each: 33" x 35"	Each: 32 $\frac{3}{8}$ " x 35 $\frac{1}{2}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1

Note: ¹ See the "Glass Construction Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

IG-1: The operable and the fixed sashes contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of two single strength ($\frac{3}{32}$ ") annealed glass lites separated by a U-shaped spacer system that is embedded in sealant. The glass thickness and type used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass units are glazed against a bed of silicone sealant. The insulating glass units are secured in place with vinyl glazing beads.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are miter cut and welded construction. The top sash is fastened to the frame 6 inch vinyl retaining clips secured with No. 6 screws and two metal angle brackets secured with No. 6 screws into the exterior meeting rail.

Sash Construction: The sash members are manufactured from extruded vinyl (PVC). The sash corners are miter cut and thermally welded construction.

Mullion Construction: Each mullion contains a custom shaped extruded aluminum reinforcement. The reinforcement extends the length of the mullion. The reinforcement is secured to each frame jamb with screws located 2 inches from the head and the sill and 10 inches on center. Metal brackets are secured to the aluminum mullion reinforcement at the head (part No. H6518M00) and at the sill (part No. H6611M00) using two (2) No. 8 x $1\frac{1}{4}$ " screws at each end. The brackets are used to secure the mullion to the wall framing. Refer to the Installation section for the attachment of the brackets to the wall framing.

Reinforcement: Extruded aluminum reinforcement is utilized in the exterior fixed meeting rails, the interior sash stiles, and the interior sash rails. The reinforcement extends the full length of the members.

Hardware (per window):

- Metal cam lock with keeper; Two (2) required: Located on the interior meeting rail, 8 inches from each end.
- Coil balance; Two (2) per sash required; Located in the jamb pocket of each jamb.
- Plastic snap-fit tilt latch; Two (2) per sash required; Located at the ends of the interior meeting rail.
- Metal pivot bar; Two (2) required; Located at the ends of the bottom rail.

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**BUR-1**); product name: **New Castle XT SH Triple**; performance characteristics; the approved inspection agency (AAMA); and the applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA 450-06.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	109	72	± 50

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Smaller Assemblies: Window assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report. This evaluation report applies to single unit applications.

INSTALLATION INSTRUCTIONS

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

Installation: The wood wall framing members shall be minimum Southern Yellow Pine lumber. The window shall be mounted to the wood wall framing members using the nailing fin of the window with minimum No. 6 screws. The fasteners shall be spaced approximately 3 inches from each corner and approximately 9 inches on center along the perimeter of the window with one (1) additional screw located on each side of each mullion. Each mullion bracket shall be secured to the wall framing with minimum one (1) No. 8 screw. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing members.

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.