TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective May 1, 2009
WIN-1077

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 October 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.

CertainTeed New Castle XT Vinyl Casement Windows, 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 casement window is a vinyl casement window. The vinyl casement windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for vinyl casement windows based on the following tested construction:

General Description:

System	Description	Label Rating
1	CertainTeed New Castle XT Vinyl Casement Window; (X)	C-C40 36 x 80

Product Dimensions:

System	Overall Size	Sash Size
1	36" x 80"	34 1/4" x 78 7/16"

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 window contains a sealed insulating glass unit. The sealed insulating glass unit is comprised of two $^{3}/_{16}$" 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 unit is set from the exterior onto a bed of structural silicone sealant. Snap-on dual-durometer glazing beads secure the insulating glass unit in place.

Frame Construction: The frame members are manufactured from extruded PVC (vinyl). The frame corners are mitered and welded construction.

Sash Construction: The sash stiles and rails are constructed of extruded PVC (vinyl). The sash corners are mitered and welded construction.

Reinforcement: Extruded aluminum reinforcement is utilized in the frame head and sill and in all sash members. The reinforcement extends the length of the members.

Hardware:
- Roto operator; One (1) required; Located on the sill.
- 4-point lock system; One (1) required; Located on the lock jamb.
- Plastic snubbers; Seven (7) required; Located on the hinge side jamb.
- Metal snubbers; Seven (7) required; Located on the hinge stile adjacent to the plastic snubbers.
- Hinge (3-bar); Two (2) required; Located at each end of the hinge stile.

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 Casement**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	36	80	$\pm$ 40

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 imsdtalled 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.

INSTALLATION INSTRUCTIONS

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

Installation: The wood wall framing members shall be minimum Spruce-Pine-Fir Pine dimension lumber. The window shall be mounted to the wood wall framing members using the nailing fin of the window with minimum No. 8 x 1 5/8" screws. The fasteners shall be spaced approximately 3 inches from each corner and approximately 9 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing members. The window shall be set in a bed of silicone.

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.