

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-1321

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 September 2013.

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 5710 Aluminum Single Hung Windows, Non-impact Resistant, manufactured by:

Builders FirstSource
5525 Brittmoore Rd.
Houston, Texas 77041
(713) 849-2110

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 5710 window is an aluminum single hung window. The single hung windows evaluated in this report are individual, non-impact resistant windows. This product evaluation report is for single hung windows based on the following tested construction:

General Description:

System	Description	Rating
1	Series 5710 Single Hung Window; O/X	H-R40 47 x 84

Product Dimensions:

System	Overall Size	Sash Size	Fixed Daylight Opening Size
1	47 1/2" x 83 1/2"	45 1/2" x 30"	44 3/4" x 50 3/4"

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 Description Key" for the glazing method description.

Glass Construction Key:

IG-1: Sealed insulating glass units. The sealed insulating glass unit in the fixed sash is comprised of two $\frac{3}{16}$ " annealed glass lites separated by a butyl reinforced aluminum spacer system. The sealed insulating glass unit in the operable sash is comprised of two double strength ($\frac{1}{8}$ " annealed glass lites separated by a butyl reinforced aluminum spacer system. The glass thickness and type used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Description Key:

GM-1: The insulated glass units are interior glazed with a backbedding compound at the exterior. A vinyl snap-in glazing bead secures the insulated glass units from the interior.

Frame Construction: The frame members are manufactured of extruded aluminum. The frame corners are coped, butted, and secured with screws. The fixed interlock is attached to the frame side jambs with screws.

Sash Construction: The sash members are manufactured of extruded aluminum. The sash corners are coped, butted and secured with screws.

Reinforcement: None.

Hardware:

- Sweep lock; Two (2) required; Located on the sash top rail
- Sash stop; Two (2) required; Located on the frame jamb
- Sash guide; Two (2) required; Located on the bottom of each sash jamb
- Balance guide; Two (2) required; Located at the top of each sash stile
- Block and tackle balance; Two (2) required; Located along each sash stile

Product Identification: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**FSH-1**); the product name: **5710 SH**; performance characteristics; the approved inspection agency (AAMA); and the applicable standard: AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	47 $\frac{1}{2}$	83 $\frac{1}{2}$	± 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 installed in areas where windborne debris protection is required.

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 installation instructions and drawings are available from the manufacturer.

Installation:: The wood framing members shall be minimum Spruce-Pine-Fir lumber. The window shall be secured to the wood framing members using the window nailing fin with minimum No. 6 x $1\frac{5}{8}$ " screws. The screws shall be spaced approximately 2 inches from each end and approximately 12 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of $1\frac{1}{2}$ 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.