

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION WIN-134

Effective September 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 **December 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.

Series 8200 Thermally Broken Aluminum Single Hung Windows, Individual and Twin Mulled, New Construction and Replacement Windows, Non-impact Resistant, manufactured by

Don Young Company, Inc.
1244 Round Table Drive
Dallas, Texas 75247
(214) 630-0934

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 8200 windows are thermally broken single hung aluminum windows. The aluminum single hung windows evaluated in this report are individual and twin mulled, non-impact resistant windows. These aluminum single hung windows may be installed as new construction or replacement windows. The aluminum single hung windows specified in this report are based on the following tested constructions:

General Description:

System	Description	Label Rating
1	Series 8200 Aluminum Single Hung Window; Individual; (O/X)	H-C50 44 x 80
2	Series 8200 Aluminum Single Hung Window; Twin; (O/X.O/X)	Each Window: H-C50 44 x 80

Product Dimensions:

System	Window Size	Sash Size	Fixed Glass Size
1	44" x 80"	41 1/2" x 40 1/4"	39 5/8" x 36 5/8"
2	Each: 44" x 80"	Each: 41 1/2" x 40 1/4"	Each: 39 5/8" x 36 5/8"

Glazing Description:

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

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

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

Glass Construction Key:

IG-1: Sealed insulating glass units. The sealed insulating glass units are comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites separated by either a flexible butyl (dura-seal or dura-lite) spacer system or a U-shaped metal 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 Key:

GM-1: The insulating glass unit is set from the interior against a structural silicone bedding compound. Along the interior, the insulating glass unit is held in place with a snap-in aluminum glazing bead.

Frame Construction: The window frame is manufactured from 6063-T5 extruded aluminum alloy. The frame is thermally broken. The frame corners are coped, butted, and secured with screws. The fixed interlock is secured to each jamb with screws.

Sash Construction: The sash is manufactured from 6063-T5 extruded aluminum alloy. The sash is thermally broken. The sash corners are coped, butted, and secured with screws.

Product Identification:

System 1: A certification program label (AAMA) will be affixed to the window. The certification program label includes the manufacturer's code name (**DY-1**); product name: **Series 8200 SH**; performance characteristics; the approved inspection agency (AAMA); and the following applicable standard: ANSI/AAMA/NWDA 101/I.S.2-97.

System 2: A certification program label (AAMA) will be affixed to each window in the mullied assembly. The certification program label includes the manufacturer's code name (**DY-1**); product name: **Series 8200 SH**; performance characteristics; the approved inspection agency (AAMA); and the following applicable standard: ANSI/AAMA/NWDA 101/I.S.2-97.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	44	80	±50
2	88	80	±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.

INSTALLATION INSTRUCTIONS

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

Installation:

System 1 (Replacement window): The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window assembly shall be fastened to the wood wall framing members using the window frame head and side jambs with minimum No. 10 x 2 1/2" screws. Along the head, four (4) fasteners are required. One fastener shall be located approximately 3 inches from each end and two fasteners shall be evenly spaced between them. Along each side jamb, a minimum of six (6) fasteners are required. One fastener shall be located approximately 6 inches from the top and bottom, one fastener shall be located approximately 6 inches above and below the interlock, and one fastener shall be located at the mid-span of the window. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The window frame shall be fully sealed to the wood framing members with silicone.

System 1 (New Construction Window): The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window assembly shall be fastened to the wood wall framing members using the window frame nailing fin with minimum 0.120" x 2 3/8" smooth shank nails. The fasteners shall be located approximately 4 inches from each corner and approximately 8 inches on center along the perimeter of the window. The fasteners shall be long enough to penetrate a minimum of 1 7/8 inches into the wall framing. The window frame shall be fully sealed to the wood framing members with silicone.

System 2 (Replacement window): The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window side jambs shall be secured to the aluminum mullion (2.872" x 1.750") using an aluminum mullion clip. The mullion clip is secured to the mullion with minimum No. 10 x 7/8" screws spaced approximately 4 inches from each end and approximately 12 inches on center. An aluminum mullion bracket (1 1/2" x 1 1/2" x 1 1/8") is secured to each end of the mullion with two (2) No. 10 x 5/8" screws. The bracket is secured to the wall framing at the head and the sill with four (4) No. 10 x 1 1/2" screws. The window assembly shall be fastened to the wood wall framing members using the window frame head and side jambs with minimum No. 10 x 2 1/2" screws. Along the head, four (4) fasteners are required for each window. One fastener shall be located approximately 3 inches from each end and two fasteners shall be evenly spaced between them. Along each side jamb, a fastener shall be located approximately 4 inches from each end and approximately 6 inches on center. The fasteners shall be long enough to penetrate a minimum of 1 1/2 inches into the wall framing. The window frame shall be fully sealed to the wood framing members with silicone.

System 2 (New Construction Window): The wall framing shall be minimum Spruce-Pine-Fir dimension lumber. The window side jambs shall be secured to the aluminum mullion (2.872" x 1.750") using an aluminum mullion clip. The mullion clip is secured to the mullion with minimum No. 10 x 7/8" screws spaced approximately 4 inches from each end and approximately 12 inches on center. An aluminum mullion bracket (1 1/2" x 1 1/2" x 1 1/8") is secured to each end of the mullion with two (2) No. 10 x 5/8" screws. The bracket is secured to the wall framing at the head and the sill with four (4) No. 10 x 1 1/2" screws. The window assembly shall be fastened to the wood wall framing members using the window frame nailing fin with minimum 0.120" x 2 3/8" smooth shank nails. The fasteners shall be located approximately 4 inch from each corner and approximately 8 inches on center along the

perimeter of the window. The fasteners shall be long enough to penetrate a minimum of $1\frac{7}{8}$ inches into the wall framing. The window frame shall be fully sealed to the wood framing members with 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.