

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION DR-128

Effective August 1, 2005

*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 3 years after the effective date.*

*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 6200H Vinyl Sliding Glass Doors, Impact resistant manufactured by

**Modern Window and Doors, Inc.**  
**2200 Spring Street**  
**Hot Springs, Arkansas 71901**  
**Telephone: (800) 835-8998**

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 6200H is a vinyl sliding glass door. The sliding glass doors evaluated in this report are impact resistant doors. This product evaluation report is for vinyl sliding glass doors based on the following tested construction:

### General Description:

System	Description	Label Rating
1	Series 6200 H; Vinyl Sliding Glass Door (XO)	SGD-C50 94 x 94

### Component Dimensions:

System	Overall Door Size	Fixed / Operable Panel Size(s)	Fixed / Operable Panel Glass Size(s)
1	94" x 93 $\frac{3}{4}$ "	48" x 89 $\frac{1}{4}$ "	41 $\frac{9}{16}$ " x 84 $\frac{3}{8}$ "

### 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 Description Key" for the glazing construction.

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

**Glazing Description Key:**

IG-1: Both panels contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of a laminated glass unit and a double strength ( $\frac{1}{8}$ " ) fully tempered Low – E TI AC glass lite separated by a Truseal Swiggle strip spacer system. The laminated glass unit is comprised of two double strength ( $\frac{1}{8}$ " ) annealed glass lites with a 0.090 inch Solutia PVB interlayer.

**Glazing Method Key:**

GM-1: The insulating glass units are set from the exterior with Sika 250-PC-C structural silicone backbedding at the interior, and the heel of the glass, full perimeter. Glass stop rails and stiles secure the insulating glass units from the exterior.

**Frame Construction:** The frame members are manufactured from extruded vinyl (PVC). The frame corners are attached with five (5) screws per corner with a foam pad at the intersection. The sill adaptor and fixed panel anchor block is attached to the frame sill with screws.

**Panel Construction:** The panels are manufactured from extruded vinyl (PVC). The panel corners are mitered and welded construction. The aluminum interlock is attached to the fixed panel and operable interlock rails with screws. The fixed panel top and bottom rails are attached to the anchor block with screws and to the frame sill with screws through the glazing pocket.

**Sill Extender:** An aluminum sill extender is attached to the frame sill with screws.

**Hardware:**

- Multi-point lock with handle, located  $36\frac{3}{8}$ " from the bottom.
- Three-point locking system located  $25\frac{1}{2}$ " from the top,  $8\frac{1}{4}$ " from the bottom, and one at the center.
- Tandem rollers located at the door bottom rail.

**Reinforcement:** Steel reinforcement is utilized in all frame members. Steel reinforcement is utilized in the top and bottom rails of both panels and in the jamb rail of the fixed panel. The operable panel lock rail, interlock, and the fixed panel interlock contain steel reinforcement and aluminum reinforcement.

**Product Identification:** A certification program label will be affixed to the window. The certification program label includes the manufacturer's name, performance characteristics and approved inspection agency to indicate compliance with the requirements of AAMA/NWWDA 101/I.S.2 and compliance with AAMA 506-2000.

**LIMITATIONS**

**Design pressures (DP):**

System	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	94	$93\frac{3}{4}$	$\pm 50$

**Impact Resistance:** These door assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone and the Seaward zone**. The door assemblies passed Missile Level C specified in ASTM E 1996-97. The door assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These door assemblies will not need to be protected with an impact protective system.

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

### INSTALLATION INSTRUCTIONS

**General:** The door assembly shall be prepared and installed in accordance with the manufacturers recommended installation instructions. Detailed drawings are available from the manufacturer. The wood wall framing members shall be minimum Southern Yellow Pine lumber.

**Installation:** The door is secured to the wall framing through the frame head, sill, and jambs with minimum No. 8 screws. Along the jambs, the fasteners are spaced a maximum of 2 inches from each corner and a maximum of 12 inches on center. Along the frame head, and sill, the fasteners are spaced a maximum of 2 inches from each corner, 2 inches from the center mull, and at the mid-span of the fixed and operable panels. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wall framing members. For concrete/masonry, minimum 3/16" diameter concrete anchors shall be used. The concrete anchors shall embed a minimum of 1 ½" into the masonry/concrete.

**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.