

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION DR-206

Effective July 1, 2006

*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 4000 Aluminum Sliding Glass Doors, Non-Impact Resistant, manufactured by**

**Atrium Windows and Doors**  
**9001 Ambassador Row**  
**Dallas, Texas 75247**  
**(214) 637-2696**

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 4000 sliding glass doors are aluminum sliding glass doors. The aluminum sliding glass doors evaluated in this report are non-impact resistant doors. This evaluation report includes aluminum sliding glass doors based on the following tested configuration:

### **General Description:**

System	Description	Label Rating
1	Series 4000 Aluminum Sliding Glass Door; (OX)	SGD-R45 72 x 80 (MODIF)

### **Component Dimensions:**

System	Overall Door Size	Operable Panel Size	Fixed Panel Size
1	71 $\frac{5}{8}$ " x 80 $\frac{1}{4}$ "	36 $\frac{5}{8}$ " x 79"	36 $\frac{5}{8}$ " x 79"

### **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.

## PRODUCT DESCRIPTION (Continued)

### Glazing Description Key:

IG-1: Both panels contain a sealed insulating glass unit. The sealed insulating glass unit is comprised of two double strength ( $\frac{1}{8}$ " ) fully tempered glass lites separated by a desiccant-filled aluminum spacer system.

### Glazing Method Key:

GM-1: The insulating glass units are glazed with a wrap around vinyl channel.

**Frame Construction:** The frame members are constructed of extruded 6063-T5 aluminum. The frame corners are coped, butted, sealed, and fastened with two (2) screws per corner.

**Panel Construction:** The panel members are constructed of extruded 6063-T5 aluminum. The panel corners are coped, butted, sealed, and fastened with screws. The fixed panel rails are secured to the frame with screws. The fixed panel is secured to the head and to the sill with a 6063-T5 extruded aluminum clip (1.00" x 1.66" x 0.125") that is secured to the frame and panel with screws. The fixed panel is secured to the jambs with screws.

**Sill Height:** The frame sill is 3 inches high.

**Reinforcement:** An I-shaped extruded 6063-T5 aluminum reinforcement is utilized in the fixed lock stile and in the moving interlock stile.

### Hardware:

<u>Description</u>	<u>Location</u>
Lock handle assembly	Midspan of active panel
Roller assembly	One at each end of active panel

**Product Identification:** A certification program label (AAMA) will be affixed to the assembly. The certification program label shall include the manufacturer's code name (AB-1); Series 4000/4003/4004/4006; performance characteristics; and an approved inspection agency to indicate compliance with AAMA/NWWDA 101/I.S.2.

## LIMITATIONS

### Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	71 $\frac{5}{8}$	80 $\frac{1}{4}$	± 45

**Impact Resistance:** These door assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These door 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:** 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 installed in accordance with the manufacturer's installation instructions. Detailed drawings and installation instructions are available from the manufacturer.

**Installation:** The door shall be mounted to minimum Southern Yellow Pine lumber. The door shall be mounted to the wood wall framing members using the door nailing fin along the head and jamb and the door frame sill. Minimum No. 8 screws shall be used. The fasteners are located approximately 4 inches from each corner and approximately 12 inches on center. The fasteners shall be long enough to penetrate a minimum of  $1\frac{1}{2}$ " into the wood framing. If the door frame sill is to be anchored to concrete, then concrete anchors shall be used. The concrete anchors shall be minimum  $\frac{3}{16}$ " diameter. The concrete anchors shall be spaced the same distance as required for the wood framing anchors and shall be long enough to penetrate a minimum of  $1\frac{1}{4}$ " into the 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.