

TEXAS DEPARTMENT OF INSURANCE

Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION DR-147

Effective December 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 0707 StormBreaker Plus Center Hinged Outswing Vinyl Replacement Glass Door, Impact Resistant, manufactured by

Simonton Building Products, Inc.
One Cochrane Avenue
Pennsboro, WV 26415-9403
(800) 426-2249

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 0707 entry door is a vinyl replacement entry door. The entry doors evaluated in this report are impact resistant doors. This product evaluation report includes the following:

General Description:

System	Description	Label Rating
1	Series 0707 Center Hinged Outswing Entry Door with a Fixed Panel; (XO)	HGD-R50 72 x 80

Component Dimensions:

System	Overall Door Size	Fixed / Operable Panel Size(s)	Fixed / Operable Panel Visible Glass Size(s)
1	71 $\frac{3}{4}$ " x 80"	34" x 77 $\frac{5}{16}$ "	26 $\frac{1}{4}$ " x 69 $\frac{3}{4}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	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.

PRODUCT DESCRIPTION (Continued)

Glazing Description Key:

IG-1: The fixed and operable panels contain a sealed insulating glass unit. The 1" sealed insulating glass unit is comprised of a laminated glass unit on the exterior and a double strength ($\frac{1}{8}$ ") fully tempered glass lite on the interior separated by a foam spacer system. The laminated glass unit is comprised of two double strength ($\frac{1}{8}$ ") annealed glass lites with a 0.090 inch PVB interlayer.

Glazing Method Key:

GM-1: The insulating glass units are interior glazed against a glazing compound and secured with dual durometer snap-fit glazing beads.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction. The astragal is constructed from an extruded PVC member with coped, butted and sealed ends, fastened to the head and sill with three (3) #10 x 3" long screws per end. The sill utilized an extruded aluminum threshold. The fixed door is secured to the frame and astragal with #10 x 3" long screws located 3" from each end and spaced 9" o.c. around the panel perimeter.

Panel Construction: The panels are manufactured from extruded vinyl (PVC). The panel corners are mitered and welded construction.

Reinforcement (System 1): The astragal (Part # R1600 AL005) and hinge stile (Part R1600 AL002) utilized extruded aluminum reinforcement.

Hardware:

- Continuous Pemko 0020 hinge (Dayton Hardware) fastened to each member with #8 x $\frac{3}{4}$ " long screws located 2" from each end and spaced 6" o.c.
- Hoppe Series 50096 handle and lockset. The handle and lockset is attached to the leaf with 11 #10 x $1\frac{1}{4}$ " long screws.
- Strike plate fastened to lock jamb with three (3) #10 x $\frac{5}{8}$ " long screws to the lock jamb.

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	72	80	± 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 D specified in ASTM E 1996-01. The window 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 Spruce-Pine-Fir lumber.

Installation (System 1): The door is secured to the wall framing through the frame head, sill, and jambs with minimum No. 10 x 2 ½" long screws. Along the jambs, the fasteners are located at 12" and 28" from each end (4 total each jamb). Along the frame head, and sill, the fasteners are located 6" from each end and 6" from each side of the astragal. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wall framing members.

For concrete/masonry, minimum ¾" 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.