TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective July 1, 2009
DR-370

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 May 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.

Portrait Series Fiberglass Hinged Doors, Non-Impact Resistant, manufactured by:

Stock Building Supply
1615 Dart Street
Houston, TX 77007
(713) 224-5361

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 Portrait series fiberglass hinged doors specified in this evaluation report are non-impact resistant doors. This evaluation report is for fiberglass hinged doors based on the following tested configurations:

General Description:

System	Description	Label Rating (psf)
1	Portrait Opaque Fiberglass Inswing Side-Hinged Doors; 3'-0" x 6'-8"; (XX)	±50
2	Portrait Full Lite Fiberglass Inswing Side-Hinged Door; 3'-0" x 6'-8"; (XX)	±50
3	Portrait Opaque Fiberglass Inswing Side-Hinged Doors; 3'-0" x 8'-0"; (XX)	±50
4	Portrait Full Lite Fiberglass Inswing Side-Hinged Doors; 3'-0" x 8'-0"; (XX)	±50

Product Dimensions:

System	Overall Frame Size	Active Panel Size	Operable Passive Panel Size	Daylight Opening Size
1	74" x 82"	35 3/4" x 79 1/4"	36 3/8" x 79 1/4"	N/A
2	74" x 82"	35 3/4" x 79 1/4"	36 3/8" x 79 1/4"	22" x 64"
3	74" x 98"	35 3/4" x 95 1/4"	36 3/8" x 95 1/4"	N/A
4	74" x 98"	35 3/4" x 95 1/4"	36 3/8" x 95 1/4"	22" x 80"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	N/A	N/A
2	IG-1	GM-1
3	N/A	N/A
4	IG-1	GM-1

Note: [1] See the "Glass Construction Key" for the glazing construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:
IG-1: Sealed insulating glass unit. The sealed insulating glass unit is comprised of two double strength (1/8") fully tempered glass lites separated by an aluminum spacer system. The glass thickness used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:
GM-1: The insulating glass unit is insert glazed and is captured between one exterior and one interior Lip-Lite which is constructed of polypropylene.

Frame Construction: The frame head and jambs consist of finger joint pine wood members. The header and jambs utilize mortise butted corner construction utilizing three (3) 1/2" x 2" crown staples at each end. The threshold is an Endura aluminum adjustable inswing sill measuring 5.626" x 1.5" x the full length.

Panel Construction: The panel members consist of two sheets of 0.075" thick NanYa fiberglass skins which are adhered to PVC composite members and an expanded polystyrene core. The Endura Ultimate Hurricane "T" aluminum astragal with metal slide cover is located on the passive panel.

Reinforcement:
Systems 1 - 4: An engineered piece of wood reinforcement is located at the lock stile and hinge stile.

Hardware:
System 1 and 2:
- Lockset (Kwikset 970); One (1) required; Located 43.688 inches measuring from the top of the panel.
- Strike plate; One (1) required; Located on the door jamb; secured to the door jamb with two (2) No. 9 x 2 1/4" screws.
- Deadbolt (Kwikset 970); One (1) required; Located 38.188 inches from the top of the panel.
- Deadbolt strike plate; One (1) required; Located on the door jamb; secured to the door jamb with two (2) No. 9 x 2 1/4" screws.

System 1 and 2 (cont.):

- Astragal shoot bolt strike plate; One (1) required at the head and sill located 36 3/8" from the right jamb.
- Door hinges; Three (3) Penrod 4" x 4" brass steel butt hinges required; The top hinges are secured to the door jambs with two (2) No. 9 x 3/4" flat head screws and two (2) No. 8 x 2 1/2" flat head screws. The remaining hinges are secured to the door jambs with three (3) No. 9 x 3/4" flat head screws and one (1) No. 8 x 2 1/2" flat head screw. Each hinge is secured to the door panel with four (4) No. 9 x 3/4" flat head screws.

System 3 and 4:

- Lockset (Kwikset 970); One (1) required; Located 56 inches measuring from the top of the panel.
- Strike plate; One (1) required; Located on the door jamb; secured to the door jamb with two (2) No. 9 x 2 1/4" screws.
- Deadbolt (Kwikset 970); One (1) required; Located 52 inches from the top of the panel.
- Deadbolt strike plate; One (1) required; Located on the door jamb; secured to the door jamb with two (2) No. 9 x 2 1/4" screws.
- Astragal shoot bolt strike plate; One (1) required at the head and sill located 36 3/8" from the right jamb.
- Door hinges; Four (4) Penrod 4" x 4" brass steel butt hinges required; The top hinges are secured to the door jambs with two (2) No. 9 x 3/4" flat head screws and two (2) No. 8 x 2 1/2" flat head screws. The remaining hinges are secured to the door jambs with three (3) No. 9 x 3/4" flat head screws and one (1) No. 8 x 2 1/2" flat head screw. Each hinge is secured to the door panel with four (4) No. 9 x 3/4" flat head screws.
- Surface Bolts (System 4 only): Two (2) Ives #454 surface bolts located at the top and bottom of the active panel.

Product Identification: A certification program label (NAMI) will be affixed to the door. The certification program label includes the manufacturer's name (**Stock Building Supply**); product name: **Portrait Fiberglass**; performance characteristics; approved inspection agency (NAMI); and the applicable standard: ASTM E-330-02.

LIMITATIONS

Design pressures (DP):

System	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	74	82	±50
2	74	82	±50
3	74	98	±50
4	74	98	±50[1]

Note: Surface bolts must be engaged to achieve design pressure.

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

Installation: The door assembly shall be fastened to minimum Southern Yellow Pine dimension lumber.

System 1 and 2: The door is attached to the framing using a minimum No. 10 x 1 ¾" long Phillips flathead screws. Each jamb is secured with four (4) fasteners located at 6 inches, 29 inches, 52 inches and 75 inches measuring from the head to the sill. The head and sill are secured with four (4) fasteners located at 6 inches, 30 inches, 42 inches and 68 inches measuring from the left frame jamb to the right frame jamb. The frame is also secured using the fasteners through the hinges as noted in the hardware section of the report. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wall framing.

System 3 and 4: The door is attached to the framing using a minimum No. 10 x 2 ½" Phillips flathead screws. Each jamb is secured with five (5) fasteners located at 6 inches, 29 inches, 52 inches, 75 inches and 92 inches measuring from the head to the sill. The head and sill are secured with four (4) fasteners located at 6 inches, 30 inches, 44 inches and 68 inches measuring from the left frame jamb to the right frame jamb. The frame is also secured using the fasteners through the hinges as noted in the hardware section of the report. The fasteners shall be long enough to penetrate a minimum of 1 ½ 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.