

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / 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-462

Effective February 1, 2011

*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 **October 2014**.*

*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.*

**6'-8" Glazed Fiberglass Doors, Inswing/Outswing, Impact Resistant Door Panels, Singles & Doubles with and without Impact Resistant Sidelites**, manufactured by

**Plastpro, Inc.**  
**5200 W. Century Blvd.**  
**Los Angeles, CA 90045**  
**Telephone: 440.969.9773**

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation report and engineering drawings TX-4080 and TX-4081, dated April 19, 2010, Revision 1, dated November 22, 2010, signed and sealed by Lyndon F. Schmidt, P.E. on November 29, 2010.

## PRODUCT DESCRIPTION

This product consists of glazed fiberglass side hinged doors, with and without sidelites, single and double configurations, hung in wood frames. This product evaluation report is for door assemblies based on tested constructions to provide the following assemblies:

### General Description:

Assembly	Description	Label Rating
1	3'0" x 6'-8" Glazed Fiberglass Single Door, Inswing/Outswing (X)	Inswing ±50 PSF Outswing ±50 PSF
2	3'0" x 6'-8" Glazed Fiberglass Single Door, Inswing/Outswing w/ Boxed Sidelite & Combination Reinforced Mullion (XO / OX)	Inswing ±50 PSF Outswing ±50 PSF
3	3'0" x 6'-8" Glazed Fiberglass Single Door, Inswing/Outswing w/ Boxed Sidelites & Combination Reinforced Mullion (OXO)	Inswing ±50 PSF Outswing ±50 PSF

Assembly	Description	Label Rating
4	6'0" x 6'-8" Glazed Fiberglass Double Door, Inswing/Outswing (XX)	Inswing ±50 PSF Outswing ±50 PSF
5	6'0" x 6'-8" Glazed Fiberglass Double Door, Inswing/Outswing w/ Boxed Sidelites & Combination Reinforced Mullion (OXXO)	Inswing ±50 PSF Outswing ±50 PSF

**Product Dimensions:**

Assembly	Overall Frame Assembly Size	Fixed/Operable Panel Sizes	Glazed Panel Sizes
1	37.25" x 82.0"	Door 35.75" x 79.25"	20.62" x 62.50"
2	76.0" x 82.0"	Door 35.75" x 79.25" Sidelite 35.75" x 79.25"	20.62" x 62.50" 20.5" x 62.75"
3	114.75" x 82.0"	Door 35.75" x 79.25" Sidelite 35.75" x 79.25"	20.62" x 62.50" 20.5" x 62.75"
4	74.0" x 82.0"	Door 35.75" x 79.25"	20.62" x 62.50"
5	151.50" x 82.0"	Door 35.75" x 79.25" Sidelite 35.75" x 79.25"	20.62" x 62.50" 20.5" x 62.75"

**Glazing Description:**

Assembly	Glass Construction <sup>1</sup>	Glazing Method <sup>2</sup>
1-5	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: 1" overall thick sealed laminated insulating glass unit. The sealed insulating glass unit is comprised of an interior lite constructed of two (2) double strength ( $\frac{1}{8}$ " ) annealed glass sheets with a 0.090" PVB interlayer (Saflex by Solutia). The exterior lite is double strength ( $\frac{1}{8}$ " ) tempered glass. The interior and exterior lites are separated by an intercept spacer system.

**Glazing Method Key:**

GM-1: The 1" overall thick sealed laminated insulating glass unit is set from the exterior against Q'SO glazing compound backbedding. Plastic lite frame (PVC) by ODL is screwed together with self-threading fasteners.

**Frame Construction:** The frame head, sill, and jambs consist of fingerjoint pine wood members. The frame corners are rabbet-cut and fastened together with (4) ½” crown, 2” long 16 ga. staples per corner at the head and sill.

**Panel Construction:** The panel members consist of 0.075” minimum thickness fiberglass skins applied to PVC composite stiles (LVL reinforced) and top / bottom rails of PVC composite. The door and sidelite panels are glazed with IG-1 glazing construction and GM-1 glazing method. The door and sidelite panels are filled with polyurethane foam, 1.9 lbs/ft<sup>3</sup> minimum density.

**Hardware:**

<u>Description</u>	<u>Location</u>
<ul style="list-style-type: none"> <li>• Kwikset Signature Lock &amp; Deadbolt or Yale YH Lock &amp; Deadbolt</li> </ul>	Deadbolt located at 39.25” from top of active panel Lock located at 44” From top of active panel
<ul style="list-style-type: none"> <li>• DLP Aluminum Astragal</li> </ul>	
<ul style="list-style-type: none"> <li>• (3) 4” Steel Butt Hinges</li> </ul>	9” from top of active panel to center of hinge and maximum 31.25” centerline to centerline.

**Product Identification:** A label will be affixed to the assembly. The label includes the manufacturer's name and performance characteristics to indicate the design pressure rating of the assembly.

**LIMITATIONS**

**Design pressures (DP):**

Assembly	Overall Width (in.)	Overall Height (in.)	Design Pressure (psf)
1	37.25	82.0 80.5	Inswing ±50 PSF Outswing ±50 PSF
2	76.0	82.0 80.5	Inswing ±50 PSF Outswing ±50 PSF
3	114.75	82.0 80.5	Inswing ±50 PSF Outswing ±50 PSF
4	74.0	82.0 80.5	Inswing ±50 PSF Outswing ±50 PSF
5	151.5	82.0 80.5	Inswing ±50 PSF Outswing ±50 PSF

**Impact Resistance:** These glazed doors and sidelites satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone. The assemblies passed Missile Level D as specified in ASTM E 1996-06. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. The assemblies do not require an impact protective system.

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

**INSTALLATION INSTRUCTIONS**

**Assemblies #1, #2 & #3: 3068 Glazed Fiberglass Single Door with or without Boxed Sidelite(s) & Combination Reinforced Mullion: X, XO / OX, OXO**

**Wall Framing:** Minimum Spruce-Pine-Fir.

**Fasteners:** Head, Sill and jambs: Minimum No. 10 x 3" long PFH wood screws.

**Attachment:** Install in accordance with engineering drawing TX-4080, dated April 19, 2010, revision 1, dated November 22, 2010, signed & sealed by Lyndon F. Schmidt, P.E. on November 29, 2010. The doors shall be mounted to the wood framing members. The fasteners shall penetrate through the door frame and into the wood framing members. If the sill is secured to a concrete foundation, then minimum  $\frac{1}{4}$ " diameter concrete anchors shall be used. The concrete anchors shall embed a minimum of  $1\frac{3}{4}$ " into the concrete.

**Assemblies #4 & #5: 6068 Glazed Fiberglass Double Door with or without Boxed Sidelites & Combination Reinforced Mullion; XX, OXXO**

**Wall Framing:** Minimum Spruce-Pine-Fir.

**Fasteners:** Head, Sill and jambs: Minimum No. 10 x 3" long PFH wood screws.

**Attachment:** Install in accordance with engineering drawing TX-4081, dated April 19, 2010, revision 1, dated November 22, 2010, signed & sealed by Lyndon F. Schmidt, P.E. on November 29, 2010. The doors shall be mounted to the wood framing members. The fasteners shall penetrate through the door frame and into the wood framing members. If the sill is secured to a concrete foundation, then minimum  $\frac{1}{4}$ " diameter concrete anchors shall be used. The concrete anchors shall embed a minimum of  $1\frac{3}{4}$ " 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.