



Product Evaluation

DR610 | 0916

Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: DR-610

Effective Date: September 1, 2015

Revised: September 1, 2016

Re-evaluation Date: November 2018

Product Name: 6'-8" and 8'-0" Glazed Fiberglass Therma-Tru Doors, Inswing & Outswing, Singles with and without Sidelites, and Doubles, Non-impact Resistant

Manufacturer: Endura Products, Inc.
8811 West Market Street
Colfax, NC 27235
(336) 668-2472

General Description:

System	Description	Label Rating	Drawing Number
1	6'-0" x 6'-8" Glazed Fiberglass Double Door, Inswing/Outswing; (XX)	<u>Ultimate Hurricane Astragal</u> Inswing +40/-45 psf Outswing +45/-45 psf <u>Ultimate Multi-point Astragal</u> Inswing +45/-50 psf Outswing +45/-45 psf <u>Ultimate Flip Lever Astragal</u> Inswing +35/-40 psf Outswing +35/-35 psf	TX-4204

General Description (Continued):

System	Description	Label Rating	Drawing Number
2	6'-0" x 8'-0" Glazed Fiberglass Double Door, Inswing/Outswing; (XX)	<u>Ultimate Hurricane Astragal</u> Inswing +40/-40 psf Outswing +40/-40 psf <u>Ultimate Multi-point Astragal</u> Inswing +45/-50 psf (DP Limited to +45/-45 psf w/ Astragal Pin Capture) Outswing +45/-45 psf <u>Ultimate Flip Lever Astragal</u> Inswing +35/-40 psf Outswing +35/-35 psf	TX-4205
3	3'-0" x 6'-8" Glazed Fiberglass Single Door w/ Sidelites and Integral Mullion, Inswing/Outswing; (OXO)	Inswing +50/-55 psf Outswing +60/-60 psf	TX-4206
4	3'-0" x 8'-0" Glazed Fiberglass Single Door w/ Sidelites and Integral Mullion, Inswing/Outswing; (OXO)	Inswing +40/-45 psf Outswing +40/-40 psf	TX-4207
5	3'-0" x 6'-8" Glazed Fiberglass Single Door, Inswing/Outswing, (X)	Inswing +50/-55 psf Outswing +60/-60 psf	TX-4423
6	3'-0" x 8'-0" Glazed Fiberglass Single Door, Inswing/Outswing, (X)	Inswing +40/-45 psf Outswing +40/-40 psf	TX-4424

Component Dimensions:

System	Overall Size	Panel Size	Maximum Daylight Opening Size
1	Inswing: 74.44" x 81.94" Outswing: 74.44" x 81-1/8"	36.00" x 79.25"	24.00" x 63.00"
2	Inswing: 74.44" x 97.94" Outswing: 74.44" x 97-1/8"	36.00" x 95.25"	23.75" x 79.00"
3	Inswing: 112.94" x 81.94" Outswing: 112.94" x 81-1/8"	36.00" x 79.25"	24.00" x 63.00"
4	Inswing: 112.94" x 97.94" Outswing: 112.94" x 97-1/8"	36.00" x 95.25"	23.75" x 79.00"
5	Inswing: 37.75" x 82.00" Outswing: 37.75" x 81.13"	36.00" x 79.25"	24.00" x 63.00"
6	Inswing: 37.75" x 97.94" Outswing: 37.75" x 97.13"	36.00" x 95.25"	23.75" x 79.00"

Components and Hardware:

System	Component	Quantity	Attachment Method
1-6	4" Butt Hinges	3 (6'-8" doors) 4 (8'-0" doors)	Install hardware and components in accordance with Endura drawings TX-4204 and TX-4205, dated August 7, 2012 (revised May 5, 2015), drawings TX-4206 and TX-4207, dated August 7, 2012 (revised January 7, 2014), and drawings TX-4423 and TX-4424 dated January 7, 2014. Lyndon F. Schmidt, P.E. signed and sealed the drawings on January 7, 2014 except drawings TX-4204 and TX-4205 which are signed and sealed on May 11, 2015.
	Lock and deadbolt strike plate	1 per lockset and deadbolt	
	Kwikset Signature Series (991) Lockset and Kwikset Signature Series (980/985) deadbolt	1	

Product Identification (Manufacturer Label on Door):

System		
1	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Doubles
	Drawing	TX-4204
	Test Standards	ASTM E330-02

Product Identification (Manufacturer Label on Door) - continued:

System		
2	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Doubles
	Drawing	TX-4205
	Test Standards	ASTM E330-02
3	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Singles, w/Non-Imp Resistant Sidelites
	Drawing	TX-4206
	Test Standards	ASTM E330-02
4	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Singles, w/Non-Imp Resistant Sidelites
	Drawing	TX-4207
	Test Standards	ASTM E330-02
5	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Singles
	Drawing	TX-4423
	Test Standards	ASTM E330-02
6	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Endura Products, Inc., Colfax, NC
	Product Name	Glazed Fiberglass Doors, Inswing/Outswing, Non-Imp Resistant Door Panels, Singles
	Drawing	TX-4424
	Test Standards	ASTM E330-02

Impact Resistance:

System	Impact Resistant	Requirement
1-6	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System			
1-6	Type of Installation	Door Frame	
	Wall Framing	Wood ($G \geq 0.42$) or Concrete (minimum 3,000 psi)	
	Fasteners	Minimum No. 10 x 2-1/2" PFH wood screw 1/4" Elco or ITW concrete screw	
	Fastener Embedment	Wood: Minimum of 1.15 inches into wood framing Concrete: Minimum of 1-3/4" into the concrete	
	Fastener Location/Spacing	Head Sill Side Jamb Hinges	Install the doors in accordance with Endura drawings TX-4204 and TX-4205, dated August 7, 2012 (revised May 5, 2015), drawings TX-4206 and TX-4207, dated August 7, 2012 (revised January 7, 2014), and drawings TX-4423 and TX-4424 dated January 7, 2014. Lyndon F. Schmidt, P.E. signed and sealed the drawings on January 7, 2014 except drawings TX-4204 and TX-4205 which are signed and sealed on May 11, 2015.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.