TDI | Texas Department of Insurance

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Product Evaluation

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-947

Effective Date: November 1, 2021
Re-evaluation Date: November 2025

Product Name: 6'-8" and 8'-0" Fiber-Classic® & Smooth-Star® Composite Edge Opaque Fiberglass Side Hinged Doors, Inswing & Outswing, Singles & Doubles, with and without Sidelites, Non-Impact Resistant

Manufacturer: Therma-Tru Corporation
118 Industrial Drive
Edgerton, OH 43517
(419) 298-1740

General Description:

System	Description	Lock Hardware	Label Rating	Drawing Number
1	3'-0" x 6'-8" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Kwikset; Schlage	Inswing: +70/-75 psf Outswing: +67/-67 psf	TX-4716
2	3'-0" x 6'-8" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Multipoint	Inswing: +80/-80 psf Outswing: +80/-80 psf	TX-4716
3	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Boxed Sidelite & Combination Mullion, Inswing/Outswing; (OX, XO)	Kwikset; Schlage; Multipoint	Inswing: +45/-50 psf Outswing: +45/-45 psf	TX-4717

General Description:

System	Description	Lock Hardware	Label Rating	Drawing Number
4	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXO)	Kwikset; Schlage; Multipoint	Inswing: +45/-50 psf Outswing: +45/-45 psf	TX-4717
5	6'-0" x 6'-8" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Kwikset; Schlage; (Standard Astragal)	Inswing: +40/-45 psf Outswing: +40/-40 psf	TX-4718
6	6'-0" x 6'-8" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Multipoint; (Standard Astragal)	Inswing: +55/-55 psf Outswing: +55/-55 psf	TX-4718
7	6'-0" x 6'8" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Kwikset; Schlage; (Coastal Astragal)	Inswing: +55/-60 psf Outswing: +60/-60 psf	TX-4718
8	6'-0" x 6'8" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Multipoint; (Coastal Astragal)	Inswing: +55/-60 psf Outswing: +67/-67 psf	TX-4718
9	6'-0" x 6'-8" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Kwikset; Schlage; (Standard Astragal)	Inswing: +40/-45 psf Outswing: +40/-40 psf	TX-4718
10	6'-0" x 6'-8" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Multipoint; (Standard Astragal)	Inswing: +55/-55 psf Outswing: +55/-55 psf	TX-4718
11	6'-0" x 6'-8" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Kwikset; Schlage; (Coastal Astragal)	Inswing: +55/-60 psf Outswing: +60/-60 psf	TX-4718
12	6'-0" x 6'-8" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Multipoint; (Coastal Astragal)	Inswing: +55/-60 psf Outswing: +67/-67 psf	TX-4718
13	3'-0" x 7'-0" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Kwikset; Schlage	Inswing: +70/-75 psf Outswing: +70/-70 psf	TX-4719
14	3'-0" x 7'-0" Opaque Fiberglass Single Door w/ Boxed Sidelite & Combination Mullion, Inswing/Outswing; (OX, XO)	Kwikset; Schlage	Inswing: +45/-50 psf Outswing: +45/-45 psf	TX-4720

General Description (continued):

System	Description	Lock Hardware	Label Rating	Drawing Number
15	3'-0" x 7'-0" Opaque Fiberglass Single Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXO)	Kwikset; Schlage	Inswing: +45/-50 psf Outswing: +45/-45 psf	TX-4720
16	3'-0" x 8'-0" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Kwikset; Schlage; (5-1/2" Centerline)	Inswing: +60/-67 psf Outswing: +60/-60 psf	TX-4721
17	3'-0" x 8'-0" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Kwikset; Schlage; (12" Centerline)	Inswing: +67/-67 psf Outswing: +67/-67 psf	TX-4721
18	3'-0" x 8'-0" Opaque Fiberglass Single Door, Inswing/Outswing; (X)	Multipoint	Inswing: +50/-50 psf Outswing: +50/-50 psf	TX-4721
19	3'-0" x 8'-0" Opaque Fiberglass Single Door w/ Boxed Sidelite & Combination Mullion Inswing/Outswing; (OX, XO)	Kwikset; Schlage; Multipoint	Inswing: +40/-40 psf Outswing: +40/-40 psf	TX-4722
20	3'-0" x 8'-0" Opaque Fiberglass Single Door w/ Boxed Sidelite & Combination Mullion Inswing/Outswing; (OXO)	Kwikset; Schlage; Multipoint	Inswing: +40/-40 psf Outswing: +40/-40 psf	TX-4722
21	6'-0" x 8'-0" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Kwikset; Schlage; Multipoint; (Standard Astragal)	Inswing: +40/-45 psf Outswing: +40/-40 psf	TX-4723
22	6'-0" x 8'-0" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Kwikset; Schlage; (Coastal Astragal)	Inswing: +50/-50 psf Outswing: +50/-50 psf	TX-4723
23	6'-0" x 8'-0" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Multipoint; (Coastal Astragal)	Inswing: +55/-55 psf Outswing: +55/-55 psf	TX-4723
24	6'-0" x 8'-0" Opaque Fiberglass Double Door, Inswing/Outswing; (XX)	Kwikset; Schlage; Multipoint; (Coastal Astragal and Surface Bolts)	Inswing: +60/-65 psf Outswing: +60/-60 psf	TX-4723

General Description (continued):

System	Description	Lock Hardware	Label Rating	Drawing Number
25	6'-0" x 8'-0" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Kwikset; Schlage; Multipoint; (Standard Astragal)	Inswing: +40/-45 psf Outswing: +40/-40 psf	TX-4723
26	6'-0" x 8'-0" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Kwikset; Schlage; Multipoint; (Coastal Astragal)	Inswing: +47/-47 psf Outswing: +47/-47 psf	TX-4723
27	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Transom, Inswing/Outswing; (O/X)	Kwikset; Schlage; Multipoint	Inswing: +47/-47 psf Outswing: +47/-47 psf	TX-4724
28	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Transom w/ Boxed Sidelite & Combination Mullion, Inswing/Outswing; (O/OX, O/XO)	Kwikset; Schlage; Multipoint	Inswing: +47/-47 psf Outswing: +47/-47 psf	TX-4725
29	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Transom w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (O/OXO)	Kwikset; Schlage; Multipoint	Inswing: +47/-47 psf Outswing: +47/-47 psf	TX-4725
30	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Boxed Sidelite & Integral Mullion (CHS), Inswing/Outswing; (OX, XO)	Multipoint	Inswing: +70/-70 psf Outswing: +70/-70 psf	TX-4726
31	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Boxed Sidelites & Integral Mullions (CHS), Inswing/Outswing; (OXO)	Multipoint	Inswing: +70/-70 psf Outswing: +70/-70 psf	TX-4726
32	3'-0" x 8'-0" Opaque Fiberglass Single Door w/ Boxed Sidelite & Integral Mullion (CHS), Inswing/Outswing; (OX, XO)	Multipoint	Inswing: +55/-55 psf Outswing: +60/-60 psf	TX-4727
33	3'-0" x 8'0" Opaque Fiberglass Single Door w/ Boxed Sidelites & Integral Mullions (CHS), Inswing/Outswing; (OXO)	Multipoint	Inswing: +55/-55 psf Outswing: +60/-60 psf	TX-4727

Component Dimensions:

System	Overall Size Inswing	Overall Size Outswing	Door Panel Size		
			Book Door	Hybrid Door	U1 Door
1, 2	37-3/4" x 82"	37-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
3	53-1/4" x 82"	53-1/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
4	68-3/4" x 82"	68-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
5, 6, 7, 8	74-3/4" x 82"	74-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
9, 10, 11, 12	105-3/4" x 82"	105-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
13	37-3/4" x 86"	37-3/4" x 85-1/4"	36" x 83-1/4"	35.81" x 83-1/4"	35.81" x 83.06"
14	53-1/4" x 86"	53-1/4" x 85-1/4"	36" x 83-1/4"	35.81" x 83-1/4"	35.81" x 83.06"
15	68-3/4" x 86"	68-3/4" x 85-1/4"	36" x 83-1/4"	35.81" x 83-1/4"	35.81" x 83.06"
16, 17, 18	37-3/4" x 98"	37-3/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
19	53-1/4" x 98"	53-1/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
20	68-3/4" x 98"	68-3/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
21, 22, 23, 24	74-3/4" x 98"	74-3/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
25, 26	105-3/4" x 98"	105-3/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
27	37-3/4" x 95-1/2"	37-3/4" x 94-3/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
28	53-1/4" x 95-1/2"	53-1/4" x 94-3/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
29	68-3/4" x 95-1/2"	68-3/4" x 94-3/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
30	52-3/4" x 82"	52-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
31	67-5/8" x 82"	67-5/8" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
32	52-3/4" x 98"	52-3/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
33	67-5/8" x 98"	67-5/8" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"

Hardware:

System	Component	Quantity	Attachment Method
1-4	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawings TX-4716 & TX-4717, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (ThermaTru) Multipoint Lock (MPDGART)	1 each	

Hardware (continued):

System	Component	Quantity	Attachment Method
5-12	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4718, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (ThermaTru) Multipoint Lock (MPDGSB)	1 each	
13-15	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawings TX-4719 & TX-4720, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N)	1 each	
16-20	4" Butt Hinges	4	Hardware must be installed in accordance w/ Therma-Tru Corporation drawings TX-4721 & TX-4722, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (ThermaTru) Multipoint Lock (MPDGART)	1 each	
21-26	4" Butt Hinges	4	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4723, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (ThermaTru) Multipoint Lock (MPDGSB)	1 each	

Hardware (continued):

System	Component	Quantity	Attachment Method
27-29	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawings TX-4724, TX-4725 & TX-4726, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (ThermaTru) Multipoint Lock (MPDGART)	1 each	
30-33	4" Butt Hinges	4	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4727 dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Hoppe (ThermaTru) Multipoint Lock (MPDGART)	1 each	

Product Identification (Manufacturer Label on Door):

System		
1, 2	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles, Non-Impact Resistant
	Drawing	TX-4716
	Test Standards	ASTM E330-14
3, 4	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites, Non-Impact Resistant
	Drawing	TX-4717
	Test Standards	ASTM E330-14

Product Identification (Manufacturer Label on Door) - continued:

System		
5, 6, 7, 8, 9, 10, 11, 12	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Doubles w/ or w/o Sidelites, Non-Impact Resistant
	Drawing	TX-4718
	Test Standards	ASTM E330-14
13	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles, Non-Impact Resistant
	Drawing	TX-4719
	Test Standards	ASTM E330-14
14, 15	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites, Non-Impact Resistant
	Drawing	TX-4720
	Test Standards	ASTM E330-14
16, 17, 18	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles, Non-Impact Resistant
	Drawing	TX-4721
	Test Standards	ASTM E330-14

Product Identification (Manufacturer Label on Door) - continued:

System		
19, 20	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites, Non-Impact Resistant
	Drawing	TX-4722
	Test Standards	ASTM E330-14
21, 22, 23, 24, 25, 26	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Doubles w/ or w/o Sidelites, Non-Impact Resistant
	Drawing	TX-4723
	Test Standards	ASTM E330-14
27	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Transom, Non-Impact Resistant
	Drawing	TX-4724
	Test Standards	ASTM E330-14
28, 29	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites and Transom, Non-Impact Resistant
	Drawing	TX-4725
	Test Standards	ASTM E330-14

Product Identification (Manufacturer Label on Door) - continued:

System		
30, 31	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites, Non-Impact Resistant
	Drawing	TX-4726
	Test Standards	ASTM E330-14
32, 33	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Fiber-Classic & Smooth-Star Composite Edge Opaque Fiberglass Doors, Inswing & Outswing, Singles w/Sidelites, Non-Impact Resistant
	Drawing	TX-4727
	Test Standards	ASTM E330-14

Impact Resistance:

System	Impact Resistant	Requirement
1-33	No	Impact protective system required when product is installed in areas where windborne debris protection is required

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

Sidelites: Sidelites must only be used with doors. Sidelites must not be installed individually.

Installation:

System		
1-33	Type of Installation	Door and anchors must be installed in accordance w/ Therma-Tru Corporation drawings TX-4716, TX-4717, TX-4718, TX-4719, TX-4720, TX-4721, TX-4722, TX-4723, TX-4724, TX-4725, TX-4726 & TX-4727, dated November 14, 2017, Rev 1 dated September 28, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 28, 2021.
	Wall Framing	
	Fasteners	
	Fastener Embedment	
	Fastener Location/Spacing	

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