

## Product Evaluation

DR949 | 1121

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-949

**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, "Coastal Impact," Inswing, Singles & Doubles, Impact Resistant with Non-Impact Resistant Sidelites

**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 w/ Boxed Sidelite & Combination Mullion, Inswing/Outswing; (OX/XO)	Kwikset Schlage Multipoint	Inswing: +60/-60 psf Outswing: +60/-60 psf	TX-4741
2	3'-0" x 6'-8" Opaque Fiberglass Single Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXO)	Kwikset Schlage Multipoint	Inswing: +60/-60 psf Outswing: +60/-60 psf	TX-4741

**General Description (continued):**

System	Description	Label Rating Multipoint Lock	Label Rating Latch & Deadbolt	Drawing Number
3	6'-0" x 6'-8" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Mullions, Inswing/Outswing; (OXXO)	Kwikset Schlage Multipoint	Inswing: +60/-60 psf Outswing: +60/-60 psf	TX-4742
4	3'-0" x 8'-0" Opaque Fiberglass Single Door w/ Boxed Sidelite & Combination Reinforced Mullion, Inswing/Outswing; (OX/XO)	Kwikset Schlage Multipoint	Inswing: +65/-65 psf Outswing: +65/-65 psf	TX-4743
5	3'-0" x 8'-0" Opaque Fiberglass Single Door w/ Boxed Sidelites & Combination Reinforced Mullion, Inswing/Outswing; (OXO)	Kwikset Schlage Multipoint	Inswing: +65/-65 psf Outswing: +65/-65 psf	TX-4743
6	6'-0" x 8'-0" Opaque Fiberglass Double Door w/ Boxed Sidelites & Combination Reinforced Mullions, Inswing/Outswing; (OXXO)	Kwikset Schlage Multipoint	Inswing: +65/-65 psf Outswing: +65/-65 psf	TX-4744

**Component Dimensions:**

System	Overall Size Inswing	Overall Size Outswing	Door Panel Size		
			Book Door	Hybrid Door	U1 Door
1	53-1/4" x 82"	54-3/4" x 81-1/4"	36" x 79-1/4"	35.81" x 79-1/4"	35.81" x 79.06"
2	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"
3	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"
4	54" x 98"	54" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
5	70-1/4" x 98"	70-1/4" x 97-1/4"	36" x 95-1/4"	35.81" x 95-1/4"	35.81" x 95.06"
6	107-1/4" x 98"	107-1/4" 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, 2	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4741, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (Therma-Tru) Multipoint Lock (MPDGART)	1 each	

**Hardware (continued):**

<b>System</b>	<b>Component</b>	<b>Quantity</b>	<b>Attachment Method</b>
3	4" Butt Hinges	3	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4742, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (Therma-Tru) Multipoint Lock (MPDGSB)	1 each	
4, 5	4" Butt Hinges	4	Hardware must be installed in accordance w/ Therma-Tru Corporation drawings TX-4743, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (Therma-Tru) Multipoint Lock (MPDGART)	1 each	
6	4" Butt Hinges	4	Hardware must be installed in accordance w/ Therma-Tru Corporation drawing TX-4744, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 2021.
	Kwikset Signature Series Knob & Deadbolt (980) or Schlage Knob (F51) & Deadbolt (B60N) or Hoppe (Therma-Tru) Multipoint Lock (MPDGSB)	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	Opaque Fiberglass Side Hinged Impact Resistant Doors, Inswing/Outswing, Singles & Doubles w/Non-Impact Resistant Sidelites
	Drawing	TX-4741
	Test Standards	ASTM E 330-14, E 1886-13a, E 1996-14a, Missile Level D
3	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Opaque Fiberglass Side Hinged Impact Resistant Doors, Inswing/Outswing, Singles & Doubles w/Non-Impact Resistant Sidelites
	Drawing	TX-4742
	Test Standards	ASTM E 330-14, E 1886-13a, E 1996-14a, Missile Level D
4, 5	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Opaque Fiberglass Side Hinged Impact Resistant Doors, Inswing/Outswing, Singles & Doubles w/Non-Impact Resistant Sidelites
	Drawing	TX-4743
	Test Standards	ASTM E 330-14, E 1886-13a, E 1996-14a, Missile Level D
6	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation
	Product Name	Opaque Fiberglass Side Hinged Impact Resistant Doors, Inswing/Outswing, Singles & Doubles w/Non-Impact Resistant Sidelites
	Drawing	TX-4744
	Test Standards	ASTM E 330-14, E 1886-13a, E 1996-14a, Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1-6	Yes (Door)	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.
	No (Sidelite)	Provide an impact protective system when installing the product in areas that require windborne debris.

**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		
1-3	Type of Installation	Door and anchors must be installed in accordance w/ Therma-Tru Corporation drawings TX-4741 & TX-4742, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 2021.
	Wall Framing	
	Fasteners	
	Fastener Embedment	
	Fastener Location/Spacing	
4-6	Type of Installation	Door and anchors must be installed in accordance w/ Therma-Tru Corporation drawings TX-4743 & TX-4744, dated November 14, 2017, Rev 1 dated September 23, 2021, signed & sealed by Lyndon F. Schmidt, P.E. on September 23, 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.