

Product Evaluation

DR988 | 0920

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 1-800-248-6032.

Evaluation ID: DR-988

Effective Date: September 1, 2020

Re-evaluation Date: September 2024

Product Name: 6'8" Opaque Fiberglass Side Hinged Doors, Inswing and Outswing, Singles and Doubles, with or without Sidelites, Impact Resistant

Manufacturer: MasterGrain
16566 Highway 12
P.O. Box 399
Midland, Ontario, Canada
(705) 527-2939

General Description:

System	Description	Label Rating ¹	Drawing Number
1	3'-6" x 6'-8" Single Door; (X)	Inswing: +75 / -85 psf Outswing: +75 / -75 psf	TX-4882
2	3'-0" x 6'-8" Single Door w/ Sidelite and Integral Mullion; (XO/OX)	Inswing: +50 / -55 psf Outswing: +50 / -50 psf	TX-4883
3	3'-0" x 6'-8" Single Door w/ Sidelites and Integral Mullions; (OXO)	Inswing: +50 / -55 psf Outswing: +50 / -50 psf	TX-4883
4	6'-0" x 6'-8" Double Door; (XX)	Inswing: +50 / -55 psf Outswing: +50 / -50 psf	TX-4884
5	6'-0" x 6'-8" Double Door w/ Sidelites and Integral Mullions; (OXXO)	Inswing: +50 / -55 psf Outswing: +50 / -50 psf	TX-4884

Note: ¹ For System 1: Maximum design pressure for the Pamex lock limited. Refer to the approved drawing for allowable design pressure limitations.

Component Dimensions:

System	Overall Size	Panel Size ²	Maximum Daylight Opening Size
1	Inswing: 43.75" x 82" Outswing: 43.75" x 81.25"	41.75" x 79"	N/A
2	Inswing: 74.75" x 82" Outswing: 74.75" x 81.25"	35.875" x 79"	20.5" x 62.63"
3	Inswing: 112" x 82" Outswing: 112" x 81.25"	35.875" x 79"	20.5" x 62.63"
4	Inswing: 74" x 82" Outswing: 74" x 81.25"	35.875" x 79"	N/A
5	Inswing: 148.5" x 82" Outswing: 148.5" x 81.25"	35.875" x 79"	20.5" x 62.63"

Note: ² For System 1: Maximum panel width for the Pamex lock limited. Refer to the approved drawing for allowable width limitations.

Hardware:

System	Component	Quantity	Attachment Method
1-3	4.5" Steel Hinge	3	Install in accordance with MasterGrain drawing TX-4882 and TX-4883, dated August 30, 2018. Revision 1 dated March 5, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 5, 2020.
	Knob: Pamex FLU600 Deadbolt: FD261 OR Knob: Kwikset Signature Series Deadbolt: Kwikset Signature Series (980) OR Knob: Schlage F51 Deadbolt: Schlage B60N OR Hoppe Multi-point: HLS ONE (3 pt. Manual Tongue)	1 each	
4-5	4.5" Steel Hinge	3	Install in accordance with MasterGrain drawing TX-4884 dated August 30, 2018. Revision 1 dated March 5, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 5, 2020.
	Knob: Pamex FLU600 Deadbolt: Pamex FD261 OR Knob: Kwikset Signature Series Deadbolt: Kwikset Signature Series (980) OR Knob: Schlage F51 Deadbolt: Schlage B60N	1 each	

Product Identification (Manufacturer Label on Door):

System		
1-3	Certification agency	Self-labeled by manufacturer
	Manufacturer's name or code name	MasterGrain
	Product name	Opaque Fiberglass Side Hinged Doors, Inswing/Outswing, Impact Resistant Door Panels, Singles w/ or w/out Sidelites
	Test standards	ASTM E330-14/E1886-13a/E1996-14a Missile Level D
4-5	Certification agency	Self-labeled by manufacturer
	Manufacturer's name or code name	MasterGrain
	Product name	Opaque Fiberglass Side Hinged Doors, Inswing/Outswing, Impact Resistant Door Panels, Doubles w/ or w/out Sidelites
	Test standards	ASTM E330-14/E1886-13a/E1996-14a Missile Level D

Impact Resistance:

System	Impact resistant	Requirement
1-5	Yes	These products satisfy TDI's criteria for protection from windborne debris. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Sidelites: Sidelites must only be installed with doors. Sidelites are not permitted to be installed without doors.

Installation:

System		
1-5	Type of installation	Install in accordance with MasterGrain drawing TX-4882, TX-4883, and TX-4884 dated August 30, 2018. Revision 1 dated March 5, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 5, 2020.
	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.