

Product Evaluation

DR986 | 0820

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-986

Effective Date: August 1, 2020

Re-evaluation Date: September 2024

Product Name: 500 Series Opaque Fiberglass Side Hinged Doors, Inswing and Outswing, Singles, 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'-0" x 8'-0" Single Door (X)	Inswing: +70 / -85 psf Outswing: +70 / -70 psf	TX-4879

Note:¹ The maximum design pressure for the hardware is limited. See the approved drawing for the design pressure limitations.

Product Dimensions:

System	Maximum Overall Size	Operable Panel Size	Fixed Panel Daylight Opening Size
1	43.50" x 97.875"	41.75" x 95"	N/A

Components and Hardware:

System	Component	Quantity	Attachment Method
1	Hinges	4 3 (Arch top)	Install hardware in accordance with MasterGrain drawing No. TX-4879, dated August 29, 2018. Revision 1 dated March 5, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 5, 2020.
	Knob: Kwikset Signature Series Deadbolt: Kwikset Signature Series (980) OR Knob: Schlage F51 Deadbolt: Schlage B60N OR Hoppe HLS ONE 3-point Locking System	1 each	
	Multipoint Latch and Deadbolt strike	1 each	
	Tongue strike plate	1	

Product Identification (Manufacturer Label on Door):

System		
1	Certification agency	Self-labeled
	Manufacturer's name or code name	MasterGrain
	Product name	500 Series Opaque Fiberglass Side Hinged Doors, Inswing/Outswing, Impact Resistant Door Panels, Singles
	Test standards	ASTM E330-14/E1886-13a/E1996-14a Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	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.

Installation:

System		
1	Type of installation	Install in accordance with MasterGrain drawing No. TX-4879, dated August 29, 2018. Revision 1 dated March 5, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 5, 2020.
	Wall framing	
	Fasteners	
	Fastener location/spacing	
	Fastener penetration	

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.