

Product Evaluation

DR990 | 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-990

Effective Date: August 1, 2020

Re-evaluation Date: September 2024

Product Name: 6'-8" Glazed 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 | Drawing Number |
|--------|---|---|----------------|
| 1 | 3'-0" x 6'-8" Single Door (X) | Inswing: +50 / -55 psf Outswing: +50 / -50 psf | TX-4888 |
| 2 | 3'-0" x 6'-8" Single Door w/ Sidelite & Integral Mullion (XO, OX) | Inswing: +50 / -55 psf Outswing: +50 / -50 psf | TX-4889 |
| 3 | 3'-0" x 6'-8" Single Door w/ Sidelites & Integral Mullions (OXO) | Inswing: +50 / -55 psf Outswing: +50 / -50 psf | TX-4889 |
| 4 | 6'-0" x 6'-8" Double Door (XX) | Inswing: +50 / -55 psf Outswing: +50 / -50 psf | TX-4890 |
| 5 | 6'-0" x 6'-8" Double Door w/ Sidelites & Integral Mullions (OXXO) | Inswing: +50 / -55 psf Outswing: +50 / -50 psf | TX-4890 |

Product Dimensions:

| System | Max. Overall Size | Operable Panel Size | Fixed Panel Daylight Opening Size |
|--------|-------------------|---------------------|-------------------------------------|
| 1 | 37.75" x 82" | 35.875" x 79" | 20.50" x 62.63" |
| 2 | 74.75" x 82" | 35.875" x 79" | Door & Sidelite: 20.50" x 62.63" |
| 3 | 112" x 82" | 35.875" x 79" | Door & Sidelite: 20.50" x 62.63" |
| 4 | 74" x 82" | 35.875" x 79" | 20.50" x 62.63" |
| 5 | 148.50" x 82" | 35.875" x 79" | Door & Sidelite: 20.50" x 62.63" |

Components and Hardware:

| System | Component | Quantity | Attachment Method |
|--------|---|----------|---|
| 1-3 | Hinges | 3 | Install hardware in accordance with MasterGrain drawings No. TX-4888 and TX-4889, dated September 4, 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 OR Knob: Pamex FLU600 Deadbolt: Pamex FD261 | 1 each | |
| | Latch & Deadbolt strike plates | 1 each | |
| | Tongue Strike plate | 1 | |
| | | | |
| 4-5 | Hinges | 3 | Install hardware in accordance with MasterGrain drawing No. TX-4890, dated September 4, 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 Knob: Pamex FLU600 Deadbolt: Pamex FD261 | 1 each | |
| | Latch & Deadbolt strike plates | 1 each | |

Product Identification (Manufacturer Label on Door):

| System | | |
|--------|----------------------|--|
| 1-3 | Certification agency | Self-labeled |
| | Manufacturer's name | MasterGrain |
| | Product name | Glazed 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 |
| | Manufacturer's name | MasterGrain |
| | Product name | Glazed 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. |

Installation:

| System | | |
|--------|---------------------------|--|
| 1-5 | Type of installation | Install in accordance with MasterGrain drawings No. TX-4888, TX-4889, and TX-4890, dated September 4, 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.