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Product Evaluation

DR422 | 0420

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-422 **Effective Date:** April 1, 2020

Re-evaluation Date: April 2024

Product Name: 8'0" Glazed or Opaque Fiberglass Side Hinged Doors, Inswing, Singles and

Doubles, with or without Sidelites, Non-Impact Resistant

Manufacturer: MasterGrain

16566 Highway 12

Midland, Ontario, Canada

(707) 527-2973

General Description: Glazed

System	Description	Design Pressure Rating	Drawing Number
1	3'-0" x 8'-0" Single Door (X)	+40 / -45 psf	TX-4044
2	3'-0" x 8'-0" Single Door w/ Boxed Sidelite & Integral Mullion (OX, XO)	+40 / -45 psf	TX-4044
3	3'-0" x 8'-0" Single Door w/ Boxed Sidelites & Integral Mullion (OXO)	+40 / -45 psf	TX-4044
4	6'-0" x 8'-0" Double Door (XX)	+45 / -45 psf	TX-4045
5	6'-0" x 8'-0" Double Door w/ Boxed Sidelites & Integral Mullions (OXXO)	+45 / -45 psf	TX-4045

General Description: Opaque

System	Description	Design Pressure Rating	Drawing Number
6	3'-0" x 8'-0" Single Door (X)	+55 / -60 psf	TX-4046
7	3'-0" x 8'-0" Single Door w/ Boxed Sidelite & Integral Mullion (OX, XO)	+55 / -60 psf	TX-4046
8	3'-0" x 8'-0" Single Door w/ Boxed Sidelites & Integral Mullion (OXO)	+55 / -60 psf	TX-4046
9	6'-0" x 8'-0" Double Door (XX)	+45 / -45 psf TX-4047	
10	6'-0" x 8'-0" Double Door w/ Boxed Sidelites & Integral Mullions (OXXO)	+45 / -45 psf	TX-4047

Product Dimensions:

System	Overall Size	Panel Size	Panel Daylight Opening Size
1, 6	37.50" x 98"	35.75" x 95.25"	21.12" x 63.12" (System 1) N/A (System 6)
2, 7	58.07" x 98"	Door: 35.75" x 95.25" Sidelite: 17.56" x 95.25"	Door: 21.12" x 63.12" (System 2) Door: N/A (System 7) Sidelite: 7" x 63.12"
3, 8	78.63" x 98"	Door: 35.75" x 95.25" Sidelite: 17.56" x 95.25"	Door: 21.12" x 63.12" (System 3) Door: N/A (System 8) Sidelite: 7" x 63.12"
4, 9	74" x 98"	35.75" x 95.25"	21.12" x 63.12" (System 4) N/A (System 9)
5, 10	115.13" x 98"	Door: 35.75" x 95.25" Sidelite: 17.56" x 95.25"	Door: 21.12" x 63.12" (System 5) Door: N/A (System 10) Sidelite: 7" x 63.12"

Components and Hardware:

components and hardware.			
System	Component	Quantity	Attachment Method
	Hinges	4	
1-10	Kwikset Lock Series 690 CP OR Copper Creek BK2040 SC #8379 Passage	1	Install hardware in accordance with MasterGrain drawing Nos. TX-4044, TX-4045, TX-4046, and TX-4047, dated
	Kwikset Series 690 CP Deadbolt OR Copper Creek BK2410 SC #8003 Deadbolt	1	January 4, 2010, Revision 1 dated March 3, 2020. Signed and sealed by Lyndon F. Schmidt, P.E. on March 4, 2020.
	Latch and Deadbolt strike plate	1 each	

Product Identification (Manufacturer Label on Door):

System			
1-3	Certification agency	Self-labeled	
	Manufacturer's name or code name	MasterGrain	
	Product name	Glazed Fiberglass Doors, Inswing, Non- Impact Resistant Door Panels, Singles w/ or w/out Sidelites	
	Test standards	ASTM E330-14	
	Certification agency	Self-labeled	
	Manufacturer's name or code name	MasterGrain	
4-5	Product name	Glazed Fiberglass Doors, Inswing, Non- Impact Resistant Door Panels, Doubles w/ or w/out Sidelites	
	Test standards	ASTM E330-14	
	Certification agency	Self-labeled	
	Manufacturer's name or code name	MasterGrain	
6-8	Product name	Opaque Fiberglass Doors, Inswing, Non- Impact Resistant Door Panels, Singles w/ or w/out Sidelites	
	Test standards	ASTM E330-14	
	Certification agency	Self-labeled	
	Manufacturer's name or code name	MasterGrain	
9-10	Product name	Opaque Fiberglass Doors, Inswing, Non- Impact Resistant Door Panels, Doubles w/ or w/out Sidelites	
	Test standards	ASTM E330-14	

Impact Resistance:

System Impact Resistant Requireme		Requirement	
	1-10	No	Provide an impact protective system when installing the product in areas that require windborne debris.

Installation:

System		
	Type of installation	Install in accordance with MasterGrain drawing Nos.
	Wall framing	TX-4044, TX-4045, TX-4046, and TX-4047, dated
1-10	Fasteners	January 4, 2010, Revision 1 dated March 3, 2020.
	Fastener location/spacing	Signed and sealed by Lyndon F. Schmidt, P.E. on
	Fastener penetration	March 4, 2020.

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.