



Product Evaluation

DR495 | 0316

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-495

Effective Date: March 1, 2016

Re-evaluation Date: May 2019

Product Name: Single and Double Opaque Outswing Hinged Steel Doors, Impact Resistant

Manufacturer: National Custom Hollow Metal Door & Frames
1701 East 22nd Street
Little Rock, AR 72206
(501) 372-3441

General Description:

System	Description	Label Rating	Drawing Number
1	3'-0" x 7'-0" Opaque Steel Single Door, Outswing; (X)	Outswing ±70 psf	NCHM002
2	6'-0" x 7'-0" Opaque Steel Double Door, Outswing; (XX)	Outswing ±70 psf	NCHM002

Component Dimensions:

System	Overall Size	Panel Size	Maximum Daylight Opening Size
1	Outswing: 3'-4" x 7'-2"	36" x 84"	NA
2	Outswing: 6'-4" x 7'-2"	36" x 84"	NA

Components and Hardware:

System	Component	Quantity	Attachment Method
1-2	Butt Hinge	3 per leaf	Hardware must be installed in accordance with National Custom Hollow Metal Door & Frames drawing NCHM002, sheets 1-8 of 8, dated April 20, 2011, Revision B, dated December 22, 2015, signed and sealed by Hermes F. Norero, P.E. on January 31, 2016.
	Lock: Corbin-Russwin CL3300, or Sargent 8200 mortise lock Exit Device: Yale 7150 Rim exit device, Sargent 8600 (active leaf) and/or HC 8700 (inactive leaf) Surface Bolts: Yale 988Y Mullion: Yale M200FWS removable mullion	Lock: 1 per single door, or 1 per double door Exit Device: 1 per leaf Surface Bolts: 2 top and bottom of inactive leaf Mullion: 1 midspan of door frame	
	Strike Plate: Yale 757F, Sargent 78-0034; Sargent 650	Per lock or 1 per exit device	

Product Identification (Certification Agency Label on Door):

System		
1-2	Certification Agency	Underwriters Laboratory (UL)
	Manufacturer's Name or Code Name	National Custom Hollow Metal
	Product Name	Outswing Flush Steel Door
	Drawing	NCHM002
	Test Standards	ANSI/SDI-BHMA A250.13

Impact Resistance:

System	Impact Resistant	Requirement
1-2	Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation:

System						
1-2	Type of Installation					
	Wall Framing	Spruce-Pine-Fir; Grouted CMU Block; Concrete (minimum 2,700 psi)				
	Fasteners	Wood: Minimum 3/8" diameter Grade 5 lag screw Grouted CMU and Concrete: Minimum 3/8" diameter Dynabolt Sleeve anchor				
	Fastener Embedment	Wood: Minimum 3" embedment Grouted CMU and Concrete: Minimum 1-1/2" embedment				
	Fastener Location/Spacing	<table border="1"> <tr> <td>Head</td> <td rowspan="4">The doors must be installed and anchored in accordance with National Custom Hollow Metal Door & Frames drawing NCHM002, sheets 1-8 of 8, dated April 20, 2011, Revision B, dated December 22, 2015, signed and sealed by Hermes F. Norero, P.E. on January 31, 2016.</td> </tr> <tr> <td>Sill</td> </tr> <tr> <td>Side Jamb</td> </tr> <tr> <td>Hinges</td> </tr> </table>	Head	The doors must be installed and anchored in accordance with National Custom Hollow Metal Door & Frames drawing NCHM002, sheets 1-8 of 8, dated April 20, 2011, Revision B, dated December 22, 2015, signed and sealed by Hermes F. Norero, P.E. on January 31, 2016.	Sill	Side Jamb
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Sill						
Side Jamb						
Hinges						

Note: Keep the manufacturer’s installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.