



Product Evaluation

DR424 | 1215

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-424

Effective Date: December 1, 2015

Re-evaluation Date: November 2017

Product Name: Series 8'-0" Three-Quarter Lite Hinged Outswing Fiberglass Patio Door with Sidelite, Impact-resistant

Manufacturer: Nan Ya Plastics Corporation USA
8989 North Loop East
Houston, Texas 77029
Telephone: (713) 674-7822

General Description:

System	Description	Label Rating	Design Pressure Rating
1	8'-10" x 8'-0" Three-Quarter Lite Hinged Outswing Fiberglass Patio Door with Sidelite, Impact Resistant, (OXX)	HGD-R50; MST: 8'0" x 8'0" Missile Level D	+50 / -50 psf

Component Dimensions:

System	Overall Size	Fixed/Operable Panel Size	Maximum Daylight Opening Size
1	105-3/4" x 95-1/2"	Door: 34-1/2" x 93-5/16" Sidelite: 34-1/2" x 93-5/16"	25-1/4" x 63-1/4"

Components and Hardware:

System	Component	Quantity	Attachment Method
1	4" Steel Butt Hinges	4	Hinge stile of each active and stationary panel. Secured to the stiles with four #9 x 2" long screws and secured to the frame using #10 x 2-1/2" screws each.
	Nan Ya Royal multi-point (3-point) locking system	1	Active panel handle set is inserted into wood lock box of lock stile and secured to panel stile with three 3/16-30 x 2-1/4" Phillips oval head screws. One multi-point lock keeper, secured with two #9 x 7/8" screws, and two hook keepers, secured with two #10 x 2-1/2" screws each.

Product Identification (Manufacturer Label on Door):

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Nan Ya Plastics Corporation
	Product Name	Nan Ya 8' Outswing 3/4 Lite Fiberglass Patio Door
	Test Standards	AAMA/NWWDA 101/I.S.2/NAFS-02; ASTM E 330; ASTM E 1886-05, ASTM E1996-05; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assembly at a height on the structure that does not exceed the assembly's design pressure rating.

Installation:

System			
1	Type of Installation	Door Frame	
	Wall Framing	Wood: Minimum Southern Pine	
	Fasteners	Head, Sill and jambs: Minimum No. 10 x 2-1/2" long wood screws	
	Fastener Embedment	1-1/2" minimum embedment into wood framing	
	Fastener Location/Spacing	Head	Twelve #10 x 3" screws; located at 4", 16", 28", 32.5", 40", 52", 64", 67", 72", 74.5", 87" and 100" measuring from the left jamb to the right jamb.
		Sill	Twelve #10 x 3" screws; located at 5", 18.5", 30.25", 33.5", 40", 52", 64", 67.5", 72.5", 76.5", 87" and 101.5" from the left jamb to the right jamb.
Side Jambs		Five #10 x 3" screws each jamb; one at 3" from the head, and four at 21-3/8" o.c. from the frame head to the frame sill penetrating through the frame into the wall framing.	

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