

Product Evaluation

DR424 | 0521

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: May 1, 2021

Re-evaluation Date: May 2025

Product Name: Fiberglass 3/4 Lite Side Hinged Patio Doors, Glazed, Outswing, Singles and Doubles, with or without Sidelites, Impact Resistant

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

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Fiberglass 3/4 Lite Side Hinged Patio Doors; Glazed; Outswing (X, XX, OX/XO, OXX)	HGD-R50 MST: 8'10" x 8'0" Missile Level D	+50 / -50 psf

Component Dimensions:

System	Overall Size	Panel Size	Maximum Daylight Opening Size
1	105-3/4" x 95-1/2"	Door and 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" Butt Hinge	4	Install hardware in accordance with drawing No. 08-03258, dated May 23, 2018. Revision A dated February 8, 2021. Signed and sealed by Luis R. Lomas, P.E. on April 8, 2021.
	Jam Yuan Enterprises Co., LTD 3-point Locking System	1	
	Jam Yuan Enterprises Co., LTD Top/Bottom Drive Bar System	1	
	Jam Yuan Enterprises Co., LTD Hook Keeper	1	
	Jam Yuan Enterprises Co., LTD Drive Bar Plate	1	
	Jam Yuan Enterprises Co., LTD Slab Multi-point Lock Keeper	1	
	Jam Yuan Enterprises Co., LTD Top/Bottom Keeper	1	
	Royal Series Handle Set	1	

Product Identification (certification agency label on door):

System		
1	Certification agency	NAMI
	Manufacturer's name or code name	Nan Ya Plastics USA
	Product name	Impact 8'0" 3/4 Lite Glazed Fiberglass Outswing Side-Hinged Patio Door w/ Sidelites
	Test standards	ASTM E330-02/E1886-05/E1996-05 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 drawing No. 08-03258, dated May 23, 2018. Revision A dated February 8, 2021. Signed and sealed by Luis R. Lomas, P.E. on April 8, 2021.
	Wall framing	
	Fasteners	
	Fastener embedment	
	Fastener location/spacing	

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.