TDI | Texas Department of Insurance

Product Evaluation

Engineering Services Program

Evaluation ID: WIN-824

Effective Date: March 1, 2022
Re-evaluation Date: March 2025

Product Name: Series 450/455/460/465 Vinyl Double Hung Windows, Fin and Frame Installation, Non-Impact Resistant

Manufacturer: Atrium Windows & Doors
300 Welcome Center Blvd.
Welcome, NC 27374
(800) 542-9118 ext. 413596

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Series 450/455/460/465 Vinyl Double Hung Windows; X/X	LC-PG30 48 x 78 - H	+30 / -30 psf
2	Series 450/455/460/465 Vinyl Double Hung Windows; X/X	LC-PG35 36 x 74 - H	+35 / -35 psf
3	Series 450/455/460/465 Vinyl Double Hung Windows; X/X	LC-PG50 36 x 74 - H	+50 / -50 psf
4	Series 450/455/460/465 Vinyl Double Hung Windows; CHS, Triple X/X.X/X.X/X	LC-PG35 108 x 74 - H	+35 / -35 psf

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General Description:

System	Description	Label Rating	Design Pressure Rating
5	Series 450/455/460/465 Vinyl Double Hung Windows; CHS, Triple X/X.X/X.X/X	LC-PG50 108 x 74 - H	+50 / -50 psf
6	Series 450/455/460/465 Vinyl Double Hung Windows; CHS, Triple X/X.X/X.X/X	LC-PG35 109 x 74 - H	+35 / -35 psf
7	Series 450/455/460/465 Vinyl Double Hung Windows; CHS, Triple X/X.X/X.X/X	LC-PG50 109 x 74 - H	+50 / -50 psf
8	Series 450/455/460/465 Vinyl Twin Double Hung with Transom; OX/X.X/X	LC-PG35 73 x 111 - H	+35 / -35 psf

Product Dimensions:

System	Overall Size	Top Sash Size	Bottom Sash Size	Transom Sash Size
1	48" x 78"	44" x 37-3/4"	44-7/8" x 38-9/16"	N/A
2-3	36" x 74"	32" x 35-3/4"	32-15/16" x 36-9/16"	N/A
4-5	108" x 74"	31-3/4" x 35-3/4"	32-9/16" x 36-1/2"	N/A
6-7	109" x 74"	32" x 35-11/16"	32-7/8" x 36-1/2"	N/A
8	72-1/2" x 111"	32" x 35-11/16"	32-7/8" x 36-1/2"	72-1/2" x 35-1/4"

Product Identification (Certification Label on Window):

System		
1-3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	450/455/460/465 Vinyl Double Hung Window w/Fin Installation
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05
4-5	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	450/455/460/465 Triple Vinyl Double Hung Window w/Fin Installation
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05
6-7	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	450/455/460/465 Mulled Triple Vinyl Double Hung Window w/Fin Installation
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05

Product Identification (Certification Label on Window):

System		
8	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Atrium Companies
	Product Name	450/455/460/465 Mulled Twin Vinyl Double Hung Window w/Transom & Fin Installation
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08/05

Impact Resistance:

System	Impact Resistant	Requirement
1-8	No	Provide an impact protective system when installing the product in areas that require windborne debris protection.

Installation:

System		
1-4, 6, 8	Type of Installation	Fin Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	Minimum No. 8
	Fastener Location/Spacing	Located approximately 2" from each corner and 8" on center along the perimeter
	Fastener Penetration	Minimum 1-1/2" into the wall framing
5, 7	Type of Installation	Frame Installation
	Wall Framing	Spruce-Pine-Fir dimension lumber
	Fasteners	Minimum No. 8 screws
	Fastener Location/Spacing	Minimum No. 8 screws located approximately 2" from each corner and 8" on center along the perimeter of the window. Minimum 2" x 2-1/2" x 1/8" aluminum mullion clip inserted into the top and the bottom of each mullion and secured at the head and the sill with two No. 8 x 2-1/2" screws.
	Fastener Penetration	Frame Installation

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.