

PO Box 12030 | Austin, TX 78711 | 800-578-4677 | tdi.texas.gov

Product Evaluation

WIN824 | 0322

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: 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 |

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 | · | , |
|--------|----------------------------------|---|
| | Certification Agency | NAMI |
| | Manufacturer's Name or Code Name | Atrium Companies |
| 1-3 | 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 |
| | Certification Agency | NAMI |
| | Manufacturer's Name or Code Name | Atrium Companies |
| 4-5 | 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 |
| | Certification Agency | NAMI |
| 6-7 | Manufacturer's Name or Code Name | Atrium Companies |
| | Product Name | 450/455/460/465 Mulled Triple Vinyl |
| | Froduct Name | 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 | | | |
|--------|----------------------------------|------------------------------------|--|
| | Certification Agency | NAMI | |
| | Manufacturer's Name or Code Name | Atrium Companies | |
| 8 | | 450/455/460/465 Mulled Twin Vinyl | |
| | Product Name | 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 | | |
|-----------|---------------------------|---|
| | Type of Installation | Fin Installation |
| | Wall Framing | Spruce-Pine-Fir dimension lumber |
| 1 / 6 9 | Fasteners | Minimum No. 8 |
| 1-4, 6, 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 |
| | 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 |
| 5, 7 | | 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. $8 \times 2-1/2$ " |
| | | 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.