#### Part 1 General

# Section Includes

## Elevate® Direct Glaze Round Top IZ3 Window (Direct Glaze) complete with glazing, simulated divided lites, jamb extension, and standard or specified anchors, trim and attachments

# Construction Specification Institute (CSI) MasterFormat Numbers and Titles

1. Section 01 33 23 – Submittal Procedures: Shop Drawings, Product Data, and Samples
2. Section 01 62 00 – Product Options
3. Section 01 25 15 – Product Substitution Procedures
4. Section 01 65 00 – Product Delivery
5. Section 01 66 00 – Product Storage and Handling Requirements
6. Section 01 71 00 – Examination and Preparation
7. Section 01 73 00 - Execution
8. Section 01 74 00 – Cleaning and Waste Management
9. Section 01 75 00 – Starting and Adjusting
10. Section 01 76 00 – Protecting Installed Construction
11. Section 06 22 00 – Millwork: Wood trim other than furnished by door and frame manufacturer
12. Section 07 92 00 – Joint Sealants: Sill sealant and perimeter caulking
13. Section 08 71 00 – Door Hardware: Hardware other than furnished by door and frame manufacturer
14. Section 09 90 00 – Paints and Coatings: Paint and stain other than finish
    1. **References**

## ASTM, International:

### E283: Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

### E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference

### E547: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls, by Cyclic Air Pressure Difference

### E2190: Standard Specification for Insulating Glass Unit Performance and Evaluation

### C1036: Standard Specification for Flat Glass

### E2112: Standard Practice for Installation of Exterior Windows, Doors, and Skylights

1. North American Fenestration Standard (NAFS) - American Architectural Manufacturer’s Association/Window and Door Manufacturer’s Association/Canadian Standards Association (AAMA/WDMA/CSA 101/I.S.2/A440):

### AAMA/WDMA/CSA 101/I.S.2/A440-17: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights

1. Window and Door Manufacturers Association (WDMA)
2. WDMA I.S.4: Industry Standard for Water Repellent Preservative Treatment for Millwork
3. WDMA I.S.2: Hallmark Certification Program
4. Insulating Glass Certification Council (IGCC) and Fenestration Glazing Industry Alliance (FGIA) Glass Products Council (GPC)
5. Fenestration Glazing Industry Alliance (FGIA) – note: AAMA combined with IGMA and formed FGIA as of 08/01/2019
6. AAMA 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels
7. National Fenestration Rating Council (NFRC):

### NFRC 101: Procedure for Determining Fenestration Product Thermal Properties

1. NFRC 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence
2. Window Covering

### WCMA A100.0: American National Standard for Safety of Window Covering Products

# System Description

## Design and Performance Requirements:

### Impact and Cycling per ASTM E1996 and E1886 with passing results for Missile Level D and Pressure Cycling of +55/-65 psf

### Air leakage shall not exceed the following when tested at 1.57 psf according to ASTM E283: 0.30 cfm per square foot of frame

### No water penetration when tested at the following pressure according to ASTM E547:8.35 psf

### Assembly shall withstand a positive or negative uniform static air pressure difference of psf without damage when tested according to ASTM E330

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Product | Air Tested to psf | Water Tested to psf | Certification Rating | Design Pressure | Max Overall  Frame Width | | Max Overall  Frame Height | |
| in | mm | in | mm |
| Elevate Direct Glaze Round Top Casement IZ3 | 1.57 | 8.35 | LC-PG55-FW | + 55 / - 65 | 83 1/8 | (2111) | 83 1/8 | (2111) |
| Elevate Direct Glaze Round Top Casement IZ3 | 1.57 | 8.35 | LC-PG55-FW | + 55 / - 65 | 72 1/16 | (1830) | 29 9/16 | (751) |
| Elevate Direct Glaze Round Top Double Hung IZ3 | 1.57 | 8.35 | LC-PG55-FW | + 55 / - 65 | 83 1/8 | (2111) | 83 1/8 | (2111) |
| Elevate Direct Glaze Round Top Double Hung IZ3 | 1.57 | 8.35 | LC-PG55-FW | + 55 / - 65 | 72 1/16 | (1830) | 29 9/16 | (751) |

# Submittals

## Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 23

## Protect Data: Submit catalog data under provision of CSI MasterFormat Section 01 33 23

## Samples:

### Submit corner section under provision of CSI MasterFormat Section 01 33 23

### Include glazing system, quality of construction, and specified finish

## Quality Control Submittals: Certificates: Submit manufacturer’s certification indicating compliance with specified performance and design requirement under provision of CSI MasterFormat Section 01 33 23

# Quality Assurance

## Requirements: Consult local code for IBC [International Building Code] and IRC [International Residential Code] adoption year and pertinent revisions for information on:

### Egress, emergency escape and rescue requirements

### Basement window requirements

### Windows fall prevention and/or window opening control device requirements

# Delivery

## Comply with provisions of CSI MasterFormat Section 01 65 00

## Deliver in original and protect from weather

# Storage and Handling

## Prime and seal wood surfaces, including to be concealed by wall construction, if more than thirty (30) days will expire between delivery and installation

## Store window units in an upright position in a clean and dry storage area above ground to protect from weather under provision of CSI MasterFormat Section 01660

# Warranty

#### **The following limited warranty is subject to conditions and exclusions. There are certain conditions or applications over which Marvin has no control. Defect or problems as a result of such conditions or applications are not the responsibility of Marvin. For a more complete description of the Marvin limited warranty, refer to the complete and current warranty information available at www.marvin.com/support/warranty.**

## Clear insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects from ten (10) years from the original date of purchase.

## Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase.

#### Part 2 Products

# Manufactured Units

## Description: Factory-assembled Elevate Round Top Window as manufactured by Marvin Windows and Doors, West Fargo

# Frame Description

## Exterior:

### Glass reinforced composite material

## Interior:

### Clear pine

### Kiln-dried to a moisture content of 6-12% at time of fabrication

### Water-repellant, preservative treated in accordance with WDMA I.S.4

## Frame Thickness:

### 2 inch (51mm)

## Frame Depth:

### 5 21/32 inch (144mm)

# Glazing

## Select quality complying with ASTMC1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190

## Glazing Method: Sandwich glazed

## Glass Type: Low E2 or Low E3 with Argon, consisting of annealed exterior and laminated glass interior. Laminated glass is comprised of two pieces of glass with either a SGP or PVB laminate layer between

## Glazing Seal: Interior glazing tape; exterior silicone sealant

# Finish

## Exterior:

### Color: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, Ebony

## Interior:

### Bare treated Pine

### Optional White, Clear interior, or Designer Black interior factory finishes

# Jamb Extension

## Furnish jamb extension: 6 9/16 inch (167mm) or 6 13/16 inch (160mm) factory-installed

## Optional jamb extension: 4 11/16 inch (119mm), 4 13/16 inch (122mm), or 5 1/16 inch (129mm) – 8 9/16 inch (217mm) shipped loose.

## Finish: White, Clear Lacquer, Designer Black

# Simulated Divided Lites (SDL)

## 7/8 inch (22mm) wide

### Exterior muntins: ABS Hi, HDT bar

### Interior muntins: bare pine with optional factory white, clear interior, or designer black finishes

### Pattern: RT1 – standard open hub with three spokes, RT2 – standard open hub with three spokes over rectangular lite cut pattern, RT7/8 – open hub with one spoke sunburst, RT6 and RT27 – standard rectangular lite cut pattern

# Accessories and Trim

## Installation Accessories:

### Factory-applied nailing fin in addition to installation clips

### Optional installation brackets for masonry in lieu of folding nailing fin

#### Part 3 Execution

# Examination

## Verification of Condition: Before installation, verify openings are plumb, square and of proper dimensions as required in CSI MasterFormat Section 01 71 00. Report frame defects or unsuitable conditions to the General contractor before proceeding.

## Acceptance of Condition: Beginning on installation confirms acceptance of existing conditions.

# Installation

## Comply with CSI MasterFormat Section 01 73 00.

## Assemble and install window/door unit(s) according to manufacturer’s instruction and reviewed shop drawing.

## Install sealant and related backing materials at perimeter of unit or assembly in accordance with CSI MasterFormat Section 07 92 00 Joint Sealants. Do not use expansive foam sealant.

## Install accessory items as required.

## Use finish nails to apply wood trim and mouldings.

# Field Quality Control

## Remove visible labels and adhesive residue according to manufacturer’s instruction.

## Unless otherwise specified, air leakage resistance tests shall be conducted at a uniform static pressure of 75 Pa (~1.57 psf). The maximum allowable rate of air leakage shall not exceed 2.3 L/sm2 (~0.45 cfm/ft2).

## Unless otherwise specified, water penetration resistance testing shall be conducted per AAMA 502 and ASTM E1105 at 2/3 of the fenestration products design pressure (DP) rating using “Procedure B” – cyclic static air pressure difference. Water penetration shall be defined in accordance with the test method(s) applied.

# Cleaning

## Remove visible labels and adhesive residue according to manufacturer’s instruction.

## Leave windows and glass in a clean condition. Final cleaning as required in CSI MasterFormat Section 01 74 00.

# Protecting Installed Construction

## Comply with CSI MasterFormat Section 07 76 00.

## Protecting windows from damage by chemicals, solvents, paint or other construction operations that may cause damage.

End of Section