# Part 1 General

# Section Includes

## Ultimate Outswing French Door 2 ¼” complete with glazing, weather strip, hardware, simulated divided lite, jamb extension, raised panel, and standard or specified anchors

## Ultimate Outswing French Door 2 ¼” Arch Top complete with glazing, weather strip, hardware, simulated divided lite, jamb extension, raised panel, and standard or specified anchors

# Related Sections

## Section 01 33 00 – Submittal Procedures: Shop Drawings, Product Data, and Samples

## Section 01 62 00 – Product Options

## Section 01 63 00 – Product Substitution Procedures

## Section 01 65 00 – Product Delivery

## Section 01 66 00 – Product Storage and Handling Requirements

## Section 01 71 00 – Examination and Preparation

## Section 01 73 00 - Execution

## Section 01 74 00 – Cleaning and Waste Management

## Section 01 75 00 – Starting and Adjusting

## Section 01 76 00 – Protecting Installed Construction

## Section 06 22 00 – Millwork: Wood trim other than furnished by door and frame manufacturer

## Section 07 92 00 – Joint Sealants: Sill sealant and perimeter caulking

## Section 08 71 00 – Door Hardware: Hardware other than furnished by door and frame manufacturer

## Section 09 90 00 – Paints and Coatings: Paint and stain other than factory-applied finish

# References

## American Society for Testing and Materials (ASTM):

### C1036: Standard Specification for Flat Glass

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

## Florida Building Code High Velocity Hurricane Zone Testing Application Standards

### TAS 201-94 Impact Test Procedures

### TAS 202-94 Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure

### TAS 203-94 Criteria for Testing Products Subjects to Cyclic Wind Pressure Loading

## WDMA I.S.4: Industry Standard for Water Repellant Preservative Treatment for Millwork

## American Architectural Manufacturer’s Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels

## Consumer Product Safety Commission (CPSC): 16 CFR 1201: Safety Standard for Architectural Glazing Materials

## National Fenestration Rating Council (NFRC):

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

### 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence

## Window Covering Manufacturer’s Association

### A100.1: American National Standard for Safety of Corded Window Covering Products

# Submittals

## Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 00.

## Product Data: Submit product data for certified options under provision of CSI MasterFormat Section 01 33 00. Product performance rating information may be provided via quote, performance rating summary (NFRC Data), or certified performance grade summary (WDMA Hallmark data).

## Samples:

1. Submit corner section provision of CSI MasterFormat Section 01 33 00.
2. Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 00.

# Quality Assurance

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

# Delivery

## Comply with provisions of Section 01 65 00

## Deliver in original packaging 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. Seal unfinished top and bottom edges of door if doors are stored at the job site more than one (1) week.

## Store door panels flat on a level surface in a clean and dry storage area above ground to protect from weather under provision of CSI MasterFormat Section 01660

## Condition doors to local average humidity before hanging

# Warranty

# **Complete and current warranty information is available at marvin.com/warranty. The following summary is subject to the terms, conditions, limitations and exclusions set forth in the Marvin Windows and Door Limited Warranty and Products in Coastal Environments Limited Warranty Supplement:**

## 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.

## Standard exterior cladding finish is warranted against manufacturing defects resulting in chalk, fade and loss of adhesion (peel) per the American Architectural Manufacturer’s Association (AAMA) Specification 2605-11 Section 8.4 and 8.9 for twenty (20) years from the original date of purchase.

## Factory applied interior finish is warranted to be free from finish defects for a period of five (5) 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 Ultimate Outswing French Door 2 ¼”, IZ4 Door and related stationary units as manufactured by Marvin Windows and Doors, Ripley, Tennessee.

## Description: Factory-assembled Ultimate Outswing French Door 2 ¼” Arch Top, IZ4 Door and related stationary units as manufactured by Marvin Windows and Doors, Ripley, Tennessee.

# Frame Description

## Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; optional non finger-jointed Mixed Grain Douglas Fir or finger-jointed core with non finger-jointed Mixed Grain Douglas Fir veneer; optional non finger-jointed White Oak or finger-jointed with non finger-jointed Oak veneer; non finger-jointed Cherry or finger-jointed core with Cherry veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer

### Kiln-dried to moisture content no greater than twelve (12) percent at time of fabrication

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

## Frame exterior clad with 0.050” (1.3mm) thick extruded aluminum

## Frame width: 4 9/16” (116mm); 6 9/16” (167mm)

## Frame thickness: 1 1/16” (27mm)

## A single pultrusion of Fiber Reinforced Plastic (FRP), also known as Ultrex®, provides superior thermal performance

### Sill Liner: Red Oak standard, optional Mahogany, or Cherry

### Standard finish is beige with an option for bronze

### Optional interior sill cover in Mahogany for all operating configurations

# Panel Description

## Interior: Non Finger-Jointed, finger-jointed/edge glued or LVL Pine, White Oak, Cherry, Mahogany, Vertical Grain Douglas Fir cores with non finger-jointed Pine, White Oak, Cherry, Mahogany, Vertical Grain Douglas Fir veneers

### Kiln-dried to moisture content no greater than twelve (12) percent at time of fabrication

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

## Sash exterior clad with 0.055” (1.4mm) thick extruded aluminum

## Panel thickness: 2 ¼” (57mm)

## Top rail and stile width: 6” (152mm)

## Bottom rail height: 8 1/8” (206mm)

## Panel corners glued and fastened with 5/8” x 4 inch (16mm by 102mm) fluted hardwood dowels.

# Glazing

## Select quality complying with ASTM C 1036. Shall comply with 16 CFR 1201 Safety Standard for Architectural Glazing Materials.

## Glazing Method: Laminated single glass

## Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure

## Glazing Seal: Wood interior glazing stops fastened with 1 1/2” nails, sealed with double sided glazing tape with dual structure silicone beads at perimeter

# Finish

## Exterior: Aluminum Clad. Fluoropolymer modified acrylic topcoat over a primer. Meets AAMA 2605 requirements.

### Clad color options: Bahama Brown, Bronze, Cadet Gray, Cascade Blue, Cashmere, Clay, Coconut Cream, Ebony, Evergreen, Gunmetal, Hampton Sage, Pebble Gray, Sierra White, Stone White, Suede, Wineberry, Bright Silver (pearlescent), Copper (pearlescent), Liberty Bronze (pearlescent)

### Custom colors: Contact your Marvin representative

## Interior Finish Options:

### Prime: Factory-applied water-borne acrylic primer. Meets WDMA TM-11 requirements.

### Painted Interior Finish. Factory-applied water-borne acrylic primer. Available on Pine product only. Available in White or Designer Black. Meets WDMA TM-14 requirements.

### Factory-applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, Vertical Grain Douglas Fir, Mixed Grain Douglas Fir, Cherry, White Oak.

### Factory-applied water-borne stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat applied in two separate coats, with light sanding coats, applied over the stain. Available on Pine, Mahogany, Vertical Grain Douglas Fir, Mixed Grain Douglas Fir, Cherry, White Oak. Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, or Espresso.

# Hardware

## Adjustable Hinges:

### 4 ¼” x 3 ¾” with 3/8” radius corners. Adjustable is 3/16” for horizontal and vertical of panels in frame

### Three hinges on panels less than or equal to 86 ½” (2197mm), four hinges on panels 86 ½” (2197mm) to less than or equal to 96” (2438mm), five hinges on panels greater than 96” (2438m)

### Powder Coat finishes: Satin taupe, White, Gold Tone, Dark Bronze, Silver Frost

### Optional metal finish: PVD Brass, Antique Brass, Oil Rubbed Bronze PVD, Satin Chrome, PVD Satin Nickel, Polished Chrome, Oil Rubbed Bronze

## Optional Ball Bearing Hinges:

### 4 ½” x 4 ½” with square corner

### Four hinges on units less than 95 ½” (2426mm), five on units over 95 ½” (2426mm)

### Finish: Satin Chrome, Solid Brass, Bronze, Stainless Steel

## Traditional Handle Set: Active and inactive

### Powder Coat finishes: Satin Taupe, White, Dark Bronze (zinc die-cast substrate)

### Metal finishes: PVD Brass, Antique Brass, Oil Rubbed Bronze, Satin Chrome, Polished Chrome, PVD Satin Nickel, or PVD Oil Rubbed Bronze (brass substrate)

## Contemporary Handle Set: Active and Inactive

### Painted finishes: Satin Taupe or Dark Bronze (aluminum substrate)

## Locking System:

### Active panel: Marvin exclusive concealed multi-point locking system. Stainless steel head and shoot bolts operated from lever set. One inch dead bolt.

### Inactive panel: Stainless steel head and shoot bolts operated from lever set

# Weather Strip

## Head jamb and side jambs to have two sets of bulb weather strip maintaining contact with door panels.

### Color: Beige or black

## Inswing and Outswing: Threshold to have bulb weather strip maintaining contact with bottom of panel

### Color: Beige or black

## Inswing: Vinyl panel drip applied to bottom rail

### Color: Beige or black

## Panel: Active panel sweep, inactive panel sweep, panel weather strip, panel cover weather strip, astragal weather strip, bulb weather strip

### Color: Beige or black

## Outswing: Surface mounted aluminum panel drip mounted to bottom of panel (units will have the drip installed)

### Standard colors: Matches panel finish with matching screws

### Custom colors: Matches panel finish with stainless steel screws

# Jamb Extension

## Factory-applied up to 3” (76mm), for other wall thickness indicated or required (shipped loose)

## Finish: Matches interior frame finish

# Simulated Divided Lites (SDL)

## 5/8” (16mm) wide, 7/8” (22mm) wide, 1 1/8” (29mm) wide, 1 15/16” (49mm), 2 13/32” (61mm) wide

## Muntins: Pine, Mixed Grain Douglas Fir, White Oak, Cherry, Mahogany, Vertical Grain Douglas Fir

## Muntins adhere to glass with double coated acrylic foam tape

## Pattern: Rectangular, Cottage, Custom lite layout

## Finish: Match panel finish

## Sticking:

### Standard: Ogee

### Optional: Square

# Raised Panels

## Milled raised panel

## Utilizes 4 ¾” intermediate rail

## Maximum Visible panel height is 25 1/2” (648mm)

# Accessories and Trim

## Installation and Hardware Accessories:

### Aluminum nailing fin/drip cap

### Masonry brackets: 6” (152mm), 10” (254mm)

# 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