#### Part 1 General

# Section Includes

## Ultimate Wood French Casement Push Out window complete with hardware, glazing, weather strip, insect screen, removable screen, grilles-between-the-glass, simulated divided lite, jamb extension, and standard or specified anchors, trim, and attachments

# Construction Specification Institute (CSI) MasterFormat Numbers and Titles

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

## Section 01 62 00 – Product Options

## Section 01 65 00 – Product Delivery

## Section 01 66 00 – 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 76 00 – Protecting Installed Construction

## Section 06 22 00 – Millwork: Wood trim other than furnished by window manufacturer

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

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

# References

## American Society for Testing Materials (ASTM):

### E283: Standard Test Method Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors

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

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

### E2190: Specification for Sealed Insulated Glass Units

### C1036: Standard Specification for Flat Glass

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

## American Architectural Manufacturer’s Association/Window and Door Manufacturer’s Association (AAMA/WDMA/CSA):

### AAMA/WDMA/CSA 101/I.S.2/A440-05, Standard/Specification for window, doors and unit skylights

### AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration, Standard/Specification for window, doors and skylights

### AAMA/WDMA/CSA 101/I.S.2/A440-11,NAFS 2011 – North American Fenestration, Standard/Specification for windows, doors and skylights

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

## Window and Door Manufacturer’s Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program

## Sealed Insulating Glass Manufacturer’s Association/Insulating Glass Certification Council (SIGMA/IGCC)

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

## National Fenestration Rating Council (NFRC):

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

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

# 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:

### Submit corner section under provision of CSI MasterFormat Section 01 33 00.

### 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 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 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

## 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 01 66 00

# 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.

## 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 Wood French Casement Push Out as manufactured by Marvin, Warroad, Minnesota.

# Frame Description

## Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine 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 12 percent at the time of fabrication

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

## Frame thickness: 1 3/16” (30mm)

## Frame depth for full frame units have an overall 5 21/32” jamb (144mm). 4 9/16” (116mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction

# Sash Description

## Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine 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 the time of fabrication

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

## Sash thickness: Sash thickness is 1 3/4” (44mm) and 2” (51mm)

## Stiles and Rail: 2 1/16” (52mm)

## Sash Options: Optional tall bottom rail: 3 9/16” (90mm)

## Interior Glazing Profile

### Standard: Ogee

### Optional: Square or Ovolo

# Glazing

## Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.

## Glazing method: Insulating glass

## Glazing seal: Silicone bedding at interior and exterior

## Dual Pane thickness: 3/4” or 1”; Tripane thickness: 1”

## Glass fill: Air with capillary tubes, Argon.

## Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure, Laminated, Low E2, Low E3, Low E1, Low E2/ERS Argon or air, Low E3/ERS Argon or air,

## Tripane glass(TG): Tripane Low E1 Argon, Tripane Low E2 Argon, Tripane Low E3 Argon, Tripane Low E3/E1/ERS, Tripane Low E2/E1/ERS. This glass type is dependent on sash thickness and availability. Consult ADM or OMS for availability.

# Finish

## Interior/Exterior: Treated wood

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

## Interior Finish options:

### Painted Interior Finish. Factory-applied water-borne acrylic primer. Available on Pine products 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, and Vertical Grain Douglas Fir.

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

# Hardware

## Hinges: There is one hinge connecting the sill to the bottom rail and one hinge connecting the head jamb to the top rail on casement units. Hinges allow the user to slide the sash across the frame opening which causes the sash exterior to rotate towards the user for the easy wash mode. Units under 20 inches (508mm) width OM do not have the easy wash hinges.

### Coastal package (stainless steel hinge) are also available.

## The lock system for both primary and secondary sash are each actuated by a single lock handle mounted on the interior face of the stile. The primary sash includes a multi-point system with head, sill, and into the jamb or stile of secondary sash. The secondary sash includes a lock system with head and sill bolts mounted flush to the side of the sash stile. The primary and secondary sash shoot bolts engage with a strike plate which is surface mounted to the head and sill. Shoot bolts mounted flush to the side of the sash stile.

### Colors: Brass (plated), Antique Brass (plated), or Satin Nickel (plated)

## Handle: Handle and lock set for this product has a traditional style and cast handle with an Oil Rubbed Bronze living finish. Optional colors: Antique Brass, Brass, Satin Nickel.

## Detachable friction limiter device is used to hold sash in place and allow sash to open to multiple positions. Stainless steel option available.

## Option for custodial limit device. Detachable restrictor. Stainless steel option available.

# Weather Strip

## Weather strip at the frame is a hollow foamed material bent around 90 degree corner to allow for seamless corner joints.

### Color: Beige

## Sash weather strip bulb shaped glass filled material

### Color: White, beige, or black

# Jamb Extension

## Jamb extensions are available for various wall thickness factory-applied up to a 12” (305mm) wide

## Finish: Match interior frame finish

# Insect Screen

## Interior Wood Hinged Screen

### Screen Mesh: Standard is Marvin Bright ViewTM. Optional: Black Aluminum Wire, Bright Aluminum Wire, Bright Bronze Aluminum Wire, Charcoal Aluminum Wire

### Species will match unit species

### Finish to match unit finish

# Simulated Divided Lites (SDL)

## 5/8” (16mm) wide, 7/8” (22mm) wide, 1 1/8” (29mm), 1 15/16” (49mm), 2 13/32” (61mm) wide with or w/out internal spacer bar

## Muntins: Pine, Mahogany, or Vertical Grain Douglas Fir

## Muntins adhere to glass with closed-cell copolymer acrylic foam tape.

## Sticking:

### Standard: Ogee

### Optional: Square

## Pattern: Rectangular, diamond, custom lite cut

## Finish: Match panel finish

# Grilles-Between-the–Glass (GBG)

## Offered on 1” glazing only

## 23/32” (18mm) contoured aluminum bar.

### Exterior Colors: Stone White. The use of different types of glazing may alter the exterior GBG color appearance

### Interior Colors: Stone White, Bronze, Pebble Gray, Sierra, White, Ebony (only available with Ebony exterior)

## Optional flat aluminum spacer bar. Contact your Marvin representative.

## Pattern: Rectangular, Cottage, Custom lite layout

# Authentic Divided Lites (ADL)

## 1 11/16” (43mm) insulating Pine, Mahogany, Vertical Grain Douglas Fir muntins or 7/8” (22mm) single glaze ADL with energy panel.

### Pattern: Rectangular; Custom lite layout

### Finish: Match sash finish

# Accessories and Trim

## Installation Accessories:

### Factory-installed vinyl nailing/drip cap

### Installation brackets: 6 3/8” (162mm), 9 3/8” (283mm), 15 3/8” (390mm)

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

## Exterior Wood Moulding:

### Profile: Brick Mould Casing (BMC), Flat Casing, Stucco Brick Mould, Stucco Flat Casing, Special Casing 3 (SPC3), Special Casing 7 (SPC7), Special Casing 21 (SPC21), Special Casing 18 (SPC18), Special Casing 26 (SPC26)

### Finish: Match exterior frame finish

## Cedar Dress:

### Subsill

### Brick Mould and Flat Casing

### Mull Covers

### Available on Pine frames

### Bare cedar

#### 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 the manufacturer’s instructions.

## 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