#### Part 1 General

# Section Includes

## Ultimate Commercial Door and Frame, complete with hardware, glazing, weather strip, simulated divided lite, stationary sidelite, stationary transom, 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 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 or stain other than factory applied finish

# References

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

## Sealed Insulating Glass Manufacturers Association / Insulating Glass Certification Council (SIGMA/IGCC)

## American Architectural Manufacturers Association (AAMA): 2605: Voluntary Specification for High-Performance Organic Coatings on Architectural Extrusions and Panels.

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

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

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

# System Description

## Design and Performance Requirement. Design Pressure applies to individual units and may vary with unit size. (2 ¼” Door only)

### Units shall be designed to comply with ASTM E330 for structural performance. SHED DP +40/-40 psf (with removable mullion rim device & vertical locking rods) and SHED DP +25/-25 psf (with removable mullion and rim device)

# Submittals

## Shop Drawings: Submit shop drawings under the 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 under provision of CSI MasterFormat Section 01 33 00.
2. Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 00.
   1. **Quality Assurance**

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

* 1. **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 door panels flat on a level surface in a clean and dry storage area above ground to protect from the weather under the provision of Section 01660

## Condition doors to local average humidity before hanging

# Warranty

#### **Complete and current warranty information is available at** [marvin.com/warranty](http://www.marvin.com/windows-and-doors/warranty/)**. The following summary is subject to the terms, conditions, limitations, and exclusions set forth in the Marvin 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 (10) years from the original date of purchase.

## Standard exterior aluminum cladding finish is warranted against manufacturing defects resulting in chalk, fade, and loss of adhesion (peel) per the American Manufacture’s Association’s (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 the 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 Commercial Door, manufactured by Marvin, Ripley, Tennessee.

# Frame Description

## Finger-Jointed, edge-glued Pine core with non-finger-jointed Pine veneer; finger-jointed, edge-glued White Oak core with non-finger-jointed White Oak veneer; finger-jointed, edge-glued Cherry core with non-finger-jointed Cherry veneer; finger-jointed, edge-glued Mahogany core with non-finger-jointed Mahogany veneer; finger-jointed, edge-glued Vertical Grain Douglas Fir core with non-finger-jointed Vertical Grain Douglas Fir veneer, edge-glued Mixed Grain Douglas Fir veneer with non-finger-jointed Mixed Grain Douglas Fir

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

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

## Frame width: 4 9/16” (116mm)

## Frame thickness: 1 1/16” (27mm)

## Exterior extruded aluminum clad 0.050” (1.3mm) thick

## Sill Options:

## 1. Standard factory installed thermal barrier saddle low profile .500” (13mm) by 7.125” (181mm) sill. Optional thermal barrier saddle low profile .250” (6mm) by 7.125” (181mm) sill. Offset saddle low profile 0.500” (13mm) by 7.00” (178mm) sill with 0.250” (6mm) offset.

## 2. Optional factory-installed thermal barrier saddle low profile 0.500” (13mm) by 8.125” (210mm). Optional thermal barrier saddle low profile 0.250” (6mm) by 8.125” (210mm) sill.

## 3. Optional factory-installed thermal barrier saddle low profile 0.500” (13mm) by 9.125” (235mm). Optional thermal barrier saddle low profile 0.250” (6mm) by 9.125” (235mm) sill.

## 4. Optional No Sill – sill supplied and applied by others. Jambs extended 7/8” (22mm) beyond panel bottom

# Panel Description

## 1 ¾” Doors: Stiles contain laminated veneer lumber (LVL) core with non-finger-jointed Pine, White Oak, Cherry, Mahogany, Mixed Grain Douglas Fir. Solid wood top, bottom, and intermediate rails.

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

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

## 2 ¼” Doors: Stiles and top rail contain laminated veneer lumber (LVL) core with non-finger-jointed Pine, White Oak, Cherry, Mahogany, Mixed Grain Douglas Fir. Solid wood bottom and intermediate rails.

## Composite panel thickness: 1 ¾” (44mm); 2 ¼” (57mm)

## Exterior extruded aluminum clad 0.055” (1.4mm) thick

## Top rail width: 1 ¾” panel: 6” (152mm) or 2 ¼” panel: 8 1/8” (206mm)

## Stile width: 6” (152mm)

## Bottom rail height: 11 3/8” (289mm)

## Panel corners glued and fastened with 5/8” x 4” (16mm x 102mm) fluted hardwood dowels. Removable interior vinyl glazing stops with non-finger-jointed wood covers. 1 ¾” panel: no visible fastener holes; 2 ¼” panel: visible nail fastener on glazing stop.

# Glazing

## Select quality complying with ASTM C1036. Comply with 16 CFR 1201 Safety Standard for Architectural Glazing Materials. Tempered insulating glass IGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E774.

## Glazing Method: Tempered Insulating Glass (Altitude Adjusted)

## Dual Pane thickness: 15/16”

## Glass fill: Air with capillary tubes, Argon

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

## Tripane glass (TG): Tripane Low E3/E1/ERS, Tripane E2/E1/ERS

## Glazing Seal: Silicone bedding, exterior

# Finish

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

### Standard Colors: 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. WDMA TM-11 requirements.

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

### Factory-applied waterborne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, Mixed Grain Douglas Fir, Vertical Grain Douglas Fir, Cherry, White Oak. Meets WDMA TM-14 requirements.

### Factory-applied waterborne stain. Stain applied over a wood (stain) conditioner. A water-borne acrylic enamel clear coat was applied in two separate coats, with light sanding between coats applied, over the stain. Available on Pine, Mahogany, Mixed Grain Douglas Fir, Vertical Grain Douglas Fir, Cherry, White Oak. Colors available: Wheat, Honey, Hazelnut, Leather, Cabernet, or Espresso. Meets WDMA TM-14 requirements.

# Hardware

## Hinges: 4 ½” x 4 ½” square corner ball bearing hinges.

### Finish: Satin Chrome (US26D) over the brass substrate, Bronze (US10A) over the brass substrate, Brass (US3), Stainless Steel (US32D).

## Locking System:

### No lock no bore is standard

### Optional Commercial Hardware Package: closer, rim device, mortise lock, removable mullion, and kick plate

## Optional hardware Routs and Preps.

### Von Duprin Push pad Rim Devices and Trim Sets

### Von Duprin Cross Bar Device and Trim Sets

### Von Duprin 5547 Concealed Vertical Rod Exit Device (available with 2 ¼” panels only)

### Schlage L Mortise Lock and Trim Sets

### Schlage ND Cylindrical locks

### Sargent 8200 Mortise Lock

### Alarm Lock

# Weather Strip

## Head jamb and hinge jamb: bulb type weather strip.

### Color: Beige or optional black

## Locking jamb: Gray pile weather strip

## Surface-mounted aluminum panel drip mounted at the bottom of the panel (shipped loose for field application)

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

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

# Jamb Extension

## Factory installed (loose) for wall thickness indicated or required.

## Finish: Match interior frame wood species and finish.

# Raised or Flat Panels

## Stamped Raised Panel

### 6” (152mm) intermediate rail constructed of 0.080” aluminum to the exterior with foam backing. Available in all aluminum clad colors. Aluminum clad colors meet AAMA 2605 requirements.

### Core is medium density fiberboard (MDF) with non-finger-jointed wood laminate to the interior.

## Flat Panel

### 6” (152mm) intermediate rail constructed of 0.125” aluminum to the exterior with foam backing. Available in all aluminum clad colors. Aluminum clad colors meet AAMA 2605 requirements.

### Core is medium density fiberboard (MDF) with non-finger-jointed wood laminated to the interior.

## Two placement option

### Low Placement: 26” (660mm) on center (OC) of 6” (152mm) intermediate rail from bottom sill for a 10 13/16” (275mm) visible panel height.

### High Placement: 40 5/16” (1024mm) on center (OC) of 6” (152mm) intermediate rail from bottom sill for a 25 1/8” (638mm) visible panel height.

# Simulated Divided Lites (SDL)

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

### Exterior muntins: Extruded aluminum 0.055” (1.4mm) thick. Color-matched panel aluminum cladding color.

### Interior muntins: Wood and finish interior of door

### Pattern: Rectangular. Custom lite layout

### Interior muntins: Wood and finish interior of door

### Standard interior glazing profile: Ogee

### Optional interior glazing profile: Square

# Grilles-Between-the–Glass (GBG)

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

### Exterior colors: matches panel aluminum clad color. The exterior GBG color is designed to best match the Marvin aluminum clad colors when used with Low E2 glass. The use of different types of glazing may alter the exterior GBG color appearance.

### Interior colors: White is the default color. Optional colors: Bronze, Pebble Gray, Sierra White, Ebony (only available with Ebony exterior).

### Pattern: Rectangular: Custom lite layout

## Optional flat aluminum spacer bar; contact your Marvin representative.

# Accessories and Trim

## Installation and hardware Accessories:

### Factory installed vinyl nailing fin/drip cap

### Installation brackets: 6 3/8” (162mm); 9 3/8” (238mm); 15 3/8” (390mm)

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

## Aluminum Extrusions:

### Profile: Brick Mould Casing; Flat Casing; Mullion Cover; Custom Profiles as indicated on drawings

### Finish: Fluoropolymer modified acrylic topcoat applied over primer. Meets AAMA 2605 requirements. Available in all aluminum clad colors. Contact your Marvin representative for custom colors.

#### Part 3 Execution

# Examination

## Verification of Condition: Before installation, verify openings are plumb, square, and of proper dimensions, as required in 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 Section 01 73 19.

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

## Install sealant and related backing materials at the perimeter of the unit or assembly in accordance with 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.

# Cleaning

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

## 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 01 76 00.

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

End of Section