#### Part 1 General

# Section Includes

## Vivid Outswing French Door and frame complete with hardware, glazing, weather strip, grilles-between-the-glass, simulated divided lites, 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 Requirements
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

### E90: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

### 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

## 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: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights

## Window and Door Manufacturers Association (WDMA)

1. WDMA I.S.4: Industry Standard for Water Repellent Preservative Treatment for Millwork
2. WDMA I.S.2: Hallmark Certification Program

## Insulating Glass Certification Council (IGCC) and Fenestration Glazing Industry Alliance (FGIA) Glass Products Council (GPC)

## Fenestration Glazing Industry Alliance (FGIA) – note: AAMA combined with IGMA and formed FGIA as of 08/01/2019

1. AAMA 624: Voluntary Specification, Performance Requirements and Test Procedures for Organic Coatings on Fiber Reinforced Thermoset Profiles
2. AAMA 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels

## National Fenestration Rating Council (NFRC):

### NFRC 100: Procedure for Determining Fenestration Product U-factors

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

# 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.

### Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 23.

## Quality Control Submittals: Certificates: submit manufacturer’s certification indicating compliance with specified performance and design requirement under provision of 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

This Limited Warranty applies to Infinity windows and doors purchased on or after the Effective Date from an authorized Infinity retailer and installed in the U.S.A. or Canada. “Limited Warranty” means and includes the Limited Lifetime Warranty and the 10/20 Limited Warranty.

## Windows shall be warranted to be free from defects in manufacturing, materials, and workmanship for a period of ten (10) years from the purchase date.

## Insulating glass shall be warranted against visible obstruction through the glass caused by a failure of the insulating glass air seal for a period of twenty (20) years from the date of the original purchase.

## Complete and current warranty information is available at infinitywindows.com/warranty. The following summary is subject to the terms, conditions, limitations and exclusions set forth in the Infinity Windows and Doors Limited Warranty and Products in Coastal Environments Limited Warranty Suppose

#### Part 2 Products

# Manufactured Units

## Description: Factory assembled Vivid Outswing French Door, as manufactured by Marvin, West Fargo, North Dakota

# Frame Description

## Interior: Laminate wrapped, finger-jointed pine

### 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.

## Exterior: Fiberglass reinforced Ultrex®

## Composite frame thickness: 1-11/16 inches (43mm)

## Frame width: 4 9/16 inches (116mm).

## Fiberglass-reinforced Ultrex® sill

### The sill is rigid for assembly and incorporates a flat bottom for ease of installation. The sill profile is designed to accept fastening and facilitate operation of the panels.

### Beige or bronze in color

### 2” high by 5 7/8” deep

### Field installed, color-matched PVC sill liner is positioned to the interior

## Jamb/Head Jamb

### Ultrex exterior with vinyl wrapped pine to the interior

### 1 11/32” (34mm) thick by 5 21/32” (144mm) deep.

### Designed to provide easy operation and panel installation with a minimum of additional parts.

# Panel Description

## Interior: Fiberglass reinforced Ultrex®

## Exterior: Fiberglass reinforced Ultrex®

## Composite panel thickness: 1 ¾” (44mm)

## Stile width dimensions: 3 5/8” (92 mm).

## Rail height dimension: top rail 3 5/8” (92mm), bottom rail 6” (152mm)

## Astragals: Interior and Exterior astragals are used on various multi-panel configurations.

### Interior Astragals

### Applied to secondary panel, provides sealing features against the primary panel

* 1. Constructed of laminate-wrapped pine.
  2. 1 11/16” wide x 1 23/32” deep

### Exterior Astragals

* 1. Applied to the primary panel and provides sealing features against the secondary panel.
  2. Constructed of aluminum
  3. 1 19/32” wide x 1” deep

# Glazing

## Select quality complying with ASTM C1036. Insulating glass is manufactured and tested level ASTM E2190 and is IGCC certified. STC and OITC ratings are certified to the level in accordance with ASTM E90-09

## Glazing Method: 3/4 inch (19mm) tempered insulating glass

## Glass type: Low E1, E2, E3, E2/ERS, E3/ERS with air or Argon gas, Rain Glass, Glue Chip, Narrow Reed, Reed, Frost, Bronze Tint, Gray Tint, Green Tint.

## Glazing Seal: Silicone bedding, interior and exterior

* 1. **Finish**

1. Exterior:
2. Pultruded Fiberglass.
3. Acrylic Capstock.
4. Meets AAMA 624-10 requirements.
5. Color: Stone White, Pebble Gray, Bronze, Ebony.
6. Interior:
7. Fiberglass reinforced composite.
8. Color: Stone White, Ebony.
9. Acrylic based capstock

# Hardware

## Hinges: 4 inch butt hinges that contain both horizontal and vertical adjustment feature

### Three hinges on all operating panels

### Finish: Powder coated: Ebony, White; PVD: Satin Nickel, Oil Rubbed Bronze

## Handle Set: Lever operated

### Interior and Exterior finishes are selected separately, Northfield handle sets optional

### Polyester powder coat finish on zinc die-cast

### Cambridge handle set: available in White, Matte Black

* 1. Northfield handle set: available in White, Matte Black

### Optional finishes are applied to a solid brass substrate

### Cambridge handle set available in Satin Nickel PVD, Oil Rubbed Bronze PVD

* 1. Northfield handle set available in Satin Nickel PVD, Oil Rubbed Bronze PVD

## Locking System:

### Multi-point locking system

### Top and bottom shoot bolt are operated by the handle set

# Weather Strip

## All units are constructed with weather strip at all panel perimeter joints

## Jambs, head jamb, and astragal utilize a bulb type weather strip

## Alcryn sill weather strip to seal against the bottom rail and panel drip

## Bottom rail utilizes a rigid panel drip

## All weather strips are black in color.

# Simulated Divided Lites (SDL)

## 7/8 inch (22mm) wide.

## 1. Exterior muntins: Ultrex finished to color match exterior

## 2. Interior muntins: Ultrex finished to color match interior

### Patterns:

### a. Rectangular (4” min DLO),

### b. 9-lite Prairie cut with 4” DLO corners

### c. 6 lite top or bottom Prairie cut with 4” DLO corners

### d. 6 lite left or right Prairie cut with 4” DLO corners

### e. Cottage style up to 2H with specified DLO height (4” min)

### f. Size limitations may apply to Prairie and Cottage lite cut availability

### Check rail Equal Lite Grid Patterns are available.

# Grilles-Between-the–Glass (GBG)

## Manufactured from aluminum in a 23/32 inch (18mm) wide contoured profile between the two panes of glass.

### Colors:

## Interior: Stone White, Pebble Gray, Bronze, Ebony

## Exterior: Stone White, Ebony

### Patterns:

## Rectangular (3” min DLO)

## 9 lite Prairie cut with 4” DLO corners

## 6 lite top or bottom Prairie cut with 4” DLO corners

## 6 lite left or right Prairie cut with 4” DLO corners

## Cottage style up to 2H with specified DLO height (3” min)

## Size limitations may apply to Prairie and Cottage lite cut availability

## Check rail

# Accessories and Trim

## Installation Accessories:

### Factory-applied nail fin with through-jamb installation is standard.

* 1. Masonry brackets are are available in place of nailing fin for installation into masonry openings.
  2. Through-jamb-only installation is available.

#### 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 of installation confirms acceptance of existing conditions.

# Installation

## Comply with CSI MasterFormat Section 01 73 00

## Assemble and install doors and frames according to manufacturer’s instruction and reviewed shop drawing

## Coordinate sealant material for location conditions and where sealant is to be applied, as specified in CSI MasterFormat Section 07 92 00.

## Install frames and stationary panels as required

## Install sill support before using door

## Install accessory items as required

## Use finish nails to apply wood trim and mouldings

# Starting and Adjusting

## Adjust door to work freely with hardware functioning properly. Re-adjust at completion of project if directed.

# 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

## Cover doors and frames during painting or other construction operations that may cause damage

## Protecting sill from damage by chemicals, solvents, paint, or construction traffic

End of Section