#### Part 1 General

# Section Includes

## Vivid Inswing door and frame complete with hardware, glazing, weather strip, screen, grilles-between-the-glass, simulated divided lites, and standard or specified anchors, and attachments

* 1. **Construction Specification Institute (CSI) MasterFormat Numbers and Titles**

1. Section 01 33 00 – 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:

1. 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
2. E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference
3. E547: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls, by Cyclic Air Pressure Difference
4. E90: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
5. E2190: Standard Specification for Insulating Glass Unit Performance and Evaluation
6. C1036: Standard Specification for Flat Glass
7. E2112: Standard Practice for Installation of Exterior Windows, Doors, and Skylights
8. 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):
9. AAMA/WDMA/CSA 101/I.S.2/A440: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights
10. AAMA/WDMA/CSA 101/I.S.2/A440: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights
11. Window and Door Manufacturers Association (WDMA)
12. WDMA I.S.4: Industry Standard for Water Repellent Preservative Treatment for Millwork
13. WDMA I.S.2: Hallmark Certification Program
14. Insulating Glass Certification Council (IGCC) and Fenestration Glazing Industry Alliance (FGIA) Glass Products Council (GPC)
15. Fenestration Glazing Industry Alliance (FGIA) – note: AAMA combined with IGMA and formed FGIA as of 08/01/2019
16. AAMA 624: Voluntary Specification, Performance Requirements and Test Procedures for Organic Coatings on Fiber Reinforced Thermoset Profiles
17. AAMA 2605: Voluntary Specification for High Performance Organic Coatings on Aluminum Extrusions and Panels
18. National Fenestration Rating Council (NFRC):
19. NFRC 100: Procedure for Determining Fenestration Product U-factors
20. NFRC 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence

# Submittals

1. Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 00.
2. 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).
3. 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 Section 01 65 00

## Deliver in original packaging and protect from weather

# Storage and Handling

## Store door units in an upright position in a clean and dry storage area above ground to protect from weather under provision of 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.

1. 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.
2. 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.
3. 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

# 2.1 Manufactured Units

1. Description: Factory assembled Vivid Inswing French Door, as manufactured by Marvin, West Fargo, North Dakota

# 2.2 Frame Description

## Interior: Laminate wrapped, finger-jointed pine

## Exterior: Fiberglass reinforced Ultrex®

## Composite frame thickness: 1-11/16 inches (47mm)

## Frame depth: 4 9/16 inches (116mm) or 6 9/16 inches (167mm).

## Beige/Bronze fiberglass reinforced pultrusion (Ultrex®) sill with color matched interior sill liner.

# Panel Description

## Fiberglass reinforced pultrusion (Ultrex®) - 0.110 inch (2.8mm) thick

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

## Ultrex® panel corners have corner keys and sealant injection

## Stile dimensions: 3-5/8 inches (92mm)

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

# 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 (2016).

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

## Glass type: Low E1 Tempered, Low E2 Tempered, Low E3 Tempered, Low E2/ERS, Low E3/ERS with Air or Argon gas or Obscured, Bronze Tint, Gray Tint, Green Tint.

## Glazing Seal: Silicone bedding, interior and exterior

# Finish

1. Exterior:

### Pultruded Fiberglass.

1. Acrylic Capstock.
2. Meets AAMA 624-10 requirements.
3. Color: Stone White, Pebble Gray, Bronze, Ebony.
4. Interior:

### Fiberglass reinforced composite.

1. Color: Stone White, Ebony.
2. Acrylic based capstock

# Hardware

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

### Three hinges on all operator panels

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

## Handle Set: Lever operated

### Interior and Exterior finishes are selected separately

### Finish: White, Satin Nickel, Oil Rubbed Bronze, and Matte Black

## 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, astragal, and mull post utilize a dual bulb weather strip

## Sill weather strip to seal against the bottom rail

## Frame weather strip is black in color, sill weather strip is black or beige in color

# Insect Screen

## Sliding screen for XO/OX, XOO/OOX, OXO

### Extruded aluminum sliding frame 0.045 inch (1.2mm) thick

### Top hung roller assembly with stainless steel ball bearing in nylon wheels, top rollers adjustable up to 3/8 inch (10mm)

### Frame to have edge mounted wool pile bug strip

### Screen mesh: 18 by 18 mesh: Charcoal fiberglass

### Frame finish: Stone White, Bronze, Pebble Gray, Ebony

### Black nylon handles on both sides of screen

## Swinging screen for X and XX

### Extruded aluminum 0.055 inch (1.4mm) thick

### Frame to have edge mounted wool pile bug strip

### Screen mesh: 18 by 18: Charcoal fiberglass

### Frame finish: Stone White, Pebble Gray, Bronze, Ebony

### Handles on both sides of screen – includes latch, pneumatic closure and sweep

# Simulated Divided Lites (SDL)

## 7/8 inch (22mm) wide with internal aluminum spacer bars

## Exterior Ultrex, finish to match exterior color

## Interior bars: ABS (Acrylonitrile Butadiene Styrene) or cPVC (Cellular Polyvinyl Chloride), finish to match interior color

## Patterns:

### Equal Rectangular

### Cottage Style/Oriel Style

### Prairie Cut

### Checkrail

# Grilles-Between-the–Glass (GBG)

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

## Exterior Finish: Stone White, Pebble Gray, Bronze, Ebony

## Interior Finish: Stone White and Ebony

## Available in equal rectangular, prairie cut, Cottage/Oriel, and Checkrail patterns

# Accessories and Trim

## Installation Accessories:

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

### Masonry brackets are available in place of nailing fin for installation into masonry openings.

### 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 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

## 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

# 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 doors 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