# Part 1 General

# Section Includes

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

* 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 13– 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
21. Window Covering
22. WCMA A100.0: American National Standard for Safety of 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 fSection 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

## Code 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

## Store door 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

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.

1. 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.
2. 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 Ultrexâ Sliding Patio Door, as manufactured by Marvin, West Fargo, North Dakota.

# Frame Description

## Fiberglass reinforced pultrusion (Ultrexâ)

## Composite frame thickness: 1-31/64 inches (38 mm)

## Frame depth: 4-9/16 inches (116 mm)

## Beige/Bronze fiberglass reinforced pultrusion (Ultrexâ) sill with cellular PVC interior sill liner

# Panel Description

## Fiberglass reinforced pultrusion (Ultrexâ)

## Composite panel thickness: 1-3/4 inches (44 mm)

## Ultrexâ panel corners have corner keys and sealant injection

## Stiles, top rail and bottom rail dimensions: 2-5/16 inches (59 mm)

# Glazing

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

## Glazing Method: 3/4 inch (19 mm) Insulating glass, Altitude adjusted

## Glass Type: Low E1 Tempered, Low E2 Tempered, Low E3 Tempered, Low E2/ERS Tempered, Low E3/ERS Tempered with Air, Argon Gas, Obscure, Laminate, Bronze Tint, Gray Tint, Green Tint.

## Glazing Seal: Silicone bedding on interior; silicone bedding on exterior

## Glazing Options: STC/OITC upgrade.

# 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

## Multi-point locking system

### Keyed

### An anti-slam pin is standard to prevent from locking when door is open

## Handle Set

### Interior and exterior selected separately

### Polyester powder coat finish on zinc die cast

#### Color: White and Matte Black

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

#### Color: Satin Nickel (PVD), Oil Rubbed Bronze (PVD)

## Rollers

### Two adjustable steel roller assemblies per operating panel

## Flush Bolts:

1. OXXO doors use top and bottom flush bolt assemblies to secure the secondary operator panel in the closed position
2. Stainless steel finish used on coastal and non-coastal

# Weather Strip

## Astragal has a bulb type weather strip.

## Interlock has a bulb-type weather strip and fin at the meeting stiles.

## Jamb, head jamb and sill utilize a leaf style weather strip

# Insect Screen

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

### Top hung roller assembly with stainless steel ball bearings in nylon wheels

### Top rollers adjustable up to 3/8 inch (10 mm)

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

## Screen Cloth

### Standard screen mesh: 18 by 16 mesh: Charcoal Fiberglass

## Flush mounted ridged nylon handle

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

# Simulated Divides Lites (SDL):

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

## Interior bar: ABS (Acrylonitrile Butadiene Styrene) or CPVC (Cellular Polyvinyl Chloride), finish matching interior color

## Exterior bar: Ultrex, finish to match exterior color

## Lite Cuts or Patterns:

### Equal Rectangle

### Cottage Style/Oriel Style

### Prairie cut

### Check rail

# Grilles-Between-the–Glass (GBG)

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

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

## Interior Finish: Stone White, Ebony

## Lite Cuts or Patterns:

### Equal Rectangle Lite

### Prairie cut

### Cottage / Oriel

### Check rail

# Accessories and Trim

## Installation Accessories:

### 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 CSI MasterFormat Section 01 71 00. Report frame defects or unsuitable conditions to the General Contractor before proceeding,

## Acceptance of Condition: Beginning 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.

# 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.

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

End of Section