# Part 1 General

# Section Includes

## Infinity Direct Glaze round top window complete with glazing, screw cover, grilles-between-the-glass, standard trim, accessories, and specified anchors

* 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/A440-08: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights
10. AAMA/WDMA/CSA 101/I.S.2/A440-11: NAFS: North American Fenestration, Standard/Specification for windows, doors, and skylights
11. Window and Door Manufacturers Association (WDMA)
12. WDMA I.S.2: Hallmark Certification Program
13. Insulating Glass Certification Council (IGCC) and Fenestration Glazing Industry Alliance (FGIA) Glass Products Council (GPC)
14. Fenestration Glazing Industry Alliance (FGIA) – note: AAMA combined with IGMA and formed FGIA as of 08/01/2019
15. National Fenestration Rating Council (NFRC):
16. NFRC 101: Procedure for Determining Fenestration Product Thermal Properties
17. NFRC 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence
18. Window Covering
19. 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 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

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

## 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 Infinity direct glaze round top windows as manufactured by Infinity Windows & Doors, Fargo, North Dakota.

# Frame Description

## Extruded glass reinforced composite

## Exterior and Interior 0.095 – 0.105 inch (2 mm) thick

## Frame thickness: 1-29/32 inches (48 mm)

## Frame depth: 3 -1/4 inches (83 mm)

# Glazing

## Select quality complying with ASTM C 1036. Insulating glass ASTM E 2190 and is IGCC certified. STC and OITC ratings are certified to the level in accordance with ASTM E 90-09 (2016).

## Glazing Method: 1 inch (25 mm) Insulating glass, Altitude adjusted

## Glass Type: Low E1, Low E2, Low E3, Low E3/ERS with Air or Argon Gas, Tempered, Tempered Obscure, Obscure, Laminate, or California Fire Glass (Annealed exterior and tempered interior glazing configuration), Bronze Tint, Gray Tint, Green Tint.

## Decorative glass option include: Glue Chip, Rain, Reed, Narrow Reed, Frost

### Decorative glass is not available with Low E1, Low E3/ERS, STC/OITC, or Laminate

### Rain, Reed, and Narrow Reed not available with SDL

### SDL available with Frost, annealed or tempered glass

### SDL available with Glue Chip, tempered glass required

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

## Glazing Option: STC/OITC upgrade, Laminate upgrade

# Finish

## Exterior: Extruded glass reinforced with co-extruded Acrylic finish.

### Exterior Colors: Stone White, Sierra, Pebble Gray, Bronze, Cashmere, Bahama Brown, Ebony

## Interior: Extruded glass reinforced composite with co-extruded Acrylic finish.

### Interior Color: Stone White, Sierra, Ebony or Bronze. Optional stainable non-wood interior wrap: EverWood™

# Simulated Divides Lites (SDL):

## 7/8” (22mm) or 1 1/8” (29mm) wide with internal aluminum spacer bars

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

## Exterior bar: ABS (Acrylonitrile Butadiene Styrene) or Ultrex, finish to match exterior color

## Lite Cuts or Patterns:

### Rectangle equal lites

### Open Hub Sunburst (only available in 7/8”)

### Solid Hub Sunburst

# Grilles-Between-the–Glass (GBG)

## 23/32” (18mm) or 1” (25mm) contoured aluminum bar

## Exterior Finish: to match exterior frame color is default, Customer-selected options available

## Interior Finish: Stone White, Satin Taupe, Sierra, Bronze and Ebony

## Lite Cuts or Patterns:

### Solid Hub Sunburst

### Open Hub Sunburst

### Rectangular equal lites

# Accessories and Trim

## Installation Accessories: Package of installation hardware for operable units consisting of:

### Twelve or Twenty-four #8 x 2” Torx® truss head installation screws

### EverWood™ test strip (EverWood™ only)

### Paint and Stain Instructions (EverWood™ only)

## Interior Frame, Installation and Mulling Accessories:

### Nailing fin sill

### Nailing fin radius

### Nailing fin jamb

### Nailing fin corner gaskets

### Exterior mull cover

### Mulling pin

### Interior mull cover

### Mulling bracket

### Jamb extension (full frame units only)

### Frame extender (DH mull only)

## Exterior Casing:

### Optional factory-applied, Aluminum, Brick Mould Casing (BMC)

* 1. Color: Stone White, Sierra, Pebble Gray, Bronze, Cashmere, Ebony, or Bahama Brown

### Optional factory-applied, Aluminum, Flush Fin Casing

* 1. Color: Stone White, Sierra, Pebble Gray, Bronze, Cashmere, Ebony, or Bahama Brown

### Optional factory applied, Aluminum, Insert Brick Mould Casing (BMC)

* 1. Color: Stone White, Sierra, Pebble Gray, Bronze, Cashmere, Ebony or Bahama Brown

### Optional factory-applied, Aluminum, Insert Flange Casing

* 1. Color: Stone White, Sierra, Pebble Gray, Bronze, Cashmere, Ebony or Bahama Brown.

## ½ inch (13mm) Mull Reinforcement

### ½ inch (13mm) Interior Mull Cover

### ½ inch (13mm) Exterior Mull Cover

### ½ inch (13mm) Mull Reinforcement

# 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 Section 07 92 00 Joint Sealants.

## Install accessory items as required.

# 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 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