

Selections are required as indicated throughout this document.

The Glennly Glass Company
Insulated Glass with Between the Glass Blinds – SL20 Series

PART 1 – GENERAL

1.01 SECTION INCLUDES

Insulated Glass with Between the Glass Blinds for glazing into a variety of applications, including wood, aluminum, steel, fiberglass or vinyl doors, windows and framing. Between the Glass Blinds will allow for regulation and control of visual room privacy and room brightness. Due to their narrow design, they will not provide complete privacy nor will they provide complete room darkness. Blind operation shall be tilt only or lift and tilt.

Blinds shall be: • *selection is required* •

- a. SL20A Tilt Only*
- b. SL20C Lift & Tilt*

1.02 RELATED WORK

1. Division 08; Section 08 10 00 - Doors and Frames
2. Division 08; Section 08 30 00 - Specialty Doors and Frames
3. Division 08; Section 08 40 00 - Entrances, Storefronts and Curtain Walls
4. Division 08; Section 08 50 00 - Windows
5. Division 08; Section 08 80 00 - Glazing

1.03 PERFORMANCE REQUIREMENTS

- A. Provide Insulated Glass with Between the Glass Blinds that comply with the following:
 1. ASTM E 774 testing in insulating glass units for durability classification by Insulating Glass Certification Council.
 2. Life cycle testing demonstrating over 10,000 tilting operations.
 3. Demonstrate proper blind operation inside insulating glass unit with inside glass exposed to temperature of 20°C and external glass exposed to temperature of minus 30°C.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and standard details for each type of product indicated.
- B. Shop Drawings: Submit shop drawings for installation and associated components. Include hardware and attachments to other work.

1.05 QUALIFICATIONS

- A. Installer Qualifications: Qualified installers who are certified under the National Glass Association's Certified Glass Installer Program.
- B. Source Limitations for Insulated Glass with Between the Glass Blinds: Systems shall be from single source & from single manufacturer.

DIVISION 08 – OPENINGS

SECTION 08 88 00 • SPECIAL FUNCTION GLAZING • Insulated Glass with Between the Glass Blinds

- C. Comply with GANA “Glazing Manual” and IGMA Publication for Insulating Glass: SIGMA TM-3000, “North American Glazing Guidelines for Sealed Insulating Glass Units for commercial and Residential Use.”
- D. Safety Glazing Products: For Tempered insulating glass blind systems, provide products complying with testing requirements in 16 CFR 1201 for Category II materials.
- E. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or the manufacturer. Label shall indicate manufacturer’s name, type of glass, thickness, and safety glazing standard with which glass complies.

1.06 WARRANTY

The Glenny Glass Company Insulated Glass with Between the Glass Blinds are warranted to be free of defects in materials or workmanship for a period of five years from the date of shipment from The Glenny Glass Company. The Glenny Glass Company will repair or replace components at its sole option. Repaired or replaced components are only warranted for the remainder of the original five year period.

Abuse, misuse, modification, improper installation or improper repairs voids this warranty. Exposure to temperature of 220°F or greater voids warranty. Installing magnetic operator to the exterior voids warranty. Evidence of failure is the malfunction of blind, obstruction of vision by dust, moistures, or film on interior surfaces of glass.

PART 2 – PRODUCTS

2.01 BLINDS AND GLASS

- A. Operating Mechanism: Magnetically coupled, gear driven, tilt mini-blind installed in sealed insulating glass. Externally mounted magnet assembly that is coupled to an internal magnet that controls the tilting or lifting of blind slats.
Tilt force < 10 newtons; Lift force < 36 newtons.
 - 1. Air Space: ¾ inch.
 - 2. Operator Type: • *selection is required* •
 - a. *Wand Operator includes magnetic operator & acrylic wand • SL20A only.*
 - b. *Magnetic knob operator • SL20A only.*
 - c. *Magnetic cord operator with tensioner • SL20C only.*
 - d. *Motorized operation • SL20A or SL20C.*
 - 3. Operator Location: • *selection is required* •
 - a. *Right.*
 - b. *Left.*
- B. Horizontal Louver Blinds, Aluminum Slats:
 - 1. Slats: 6010-T8 aluminum alloy, 0.60” wide by 0.008” thick, with crowned profile.
 - 2. Spacing: Manufacturer’s standard.
 - 3. Finish: Low emissivity paint with polyester UV high resistant finish.

DIVISION 08 – OPENINGS

SECTION 08 88 00 • SPECIAL FUNCTION GLAZING • Insulated Glass with Between the Glass Blinds

4. Head and Bottom Rails: 6063-T5 aluminum alloy, painted in coordinated color with slats.
 5. Ladder Tapes/Cords: Thermally fixed polyester, UV resistant, and evenly spaced to prevent long-term slat sag.
 6. Operating Mechanism: Sintered neodymium, iron-boron magnets, producing energy of Bh maximum 33 to 35 mega oersteds and maximum working temperature of 248°F. Internal mechanism has steel gears hardened on surface and bearings to reduce friction and support magnets.
 7. Colors: *Select from Manufacturer's standard color options:*
 - a. 0102 White
 - b. 0125 Off White
 - c. 0149 Almond
 - d. 0069 Tan
 - e. 0157 Silver
 - f. 3000 Gold
- C. Insulating Glass Units: Clear insulating glass, factory assembled units consisting of sealed lites separated by a dehydrated air space, qualified according to ASTM E 2190, and complying with other requirements specified.
1. Heat-Treated Float Glass: ASTM C 1048; Type 1; Quality-Q3; Class 1 (clear) unless otherwise indicated; of kind and condition indicated.
 2. Glass Thickness: 1/8", minimum to 1/4" maximum.
 3. Overall Thickness of Insulated Glass Blind System Unit: 1" minimum to 1 1/4" maximum.
 4. Sealing System: 2 Part Polysulfide sealant.
 5. Spacer: Aluminum box spacer system.
 6. Desiccant: Molecular sieve.
- D. Basis-of-Design Manufacturer:
The Glenn Glass Company
205 Castleberry Court
Milford, OH 45150
Phone: 513-489-2233
Fax: 513-248-0694
www.glennyglassdeco.com
- E. Miscellaneous Glazing Materials: Refer to Division 8 Section "Glazing".

2.02 FABRICATION

- A. Factory fabricate insulating glass blind system with necessary space around internal magnet so it interfaces with external magnet operator.
- B. Tolerances:
 1. Space of approximately 1/8" on each side between slats and spacer, for free movement of system and allowing thermal transmission of aluminum slats.
 2. Blind Width Tolerance: + 1/16" • - 1/16"

DIVISION 08 – OPENINGS

SECTION 08 88 00 • SPECIAL FUNCTION GLAZING • Insulated Glass with Between the Glass Blinds

3. Blind Height Tolerance: + 3/8" • -0"

PART 3 – EXECUTION

3.01 EXAMINATION

Examine openings with qualified installer present. Verify that openings are square and plumb. Insure that opening provides adequate support for the system. Proceed with installation only after conditions are deemed satisfactory.

3.02 INSTALLATION

- A. Install insulating glass blind system according to manufacturer's written instructions.
- B. Refer to Division 8 Section "Glazing" for installation of insulating glass blind system units

3.03 ADJUSTMENT

- A. Clean glass, and position external magnet on glass aligned with internal magnet to produce optimum tilt operation for smooth slat rotation of blinds. Remove non-permanent labels, and clean surfaces.
- B. Protect insulating glass blind system units from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with insulating glass blind system units, remove substances immediately.
- C. Remove and replace insulating glass blind system units that are broken, chipped, cracked, or abraded or that are damaged from natural causes, accidents, or vandalism during construction period.
- D. Wash insulating glass blind system units on exposed surfaces in each area of project not more than four days before date scheduled for inspections that establish date of Substantial Completion.

END OF SECTION 08 88 00