Note: Any verbiage written in red needs to be specified. All other options should be deleted

KYLER SCREENLINE BLIND SPECIFICATION

PART 1 – GENERAL

- 1.1 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - A. Section Includes:
 - Insulated glass blind system; specify:
 a. SL20A Tilt Only
 b. SL20C Lift & Tilt
 - B. Related Sections:
 - 1. Division 8 Section "Steel Doors and Frames" for hollow metal frames.
 - 2. Division 8 Section "Glazing" for standard glass products.
 - 3. Division 8 Section "Storefront"

1.3 DEFINITIONS

- A. Glazing Manufacturers: Firms that produce primary glass, as defined in referenced glazing publications.
- B. Interspace: Space between lites of insulating glass blind systems.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide insulating glass blind systems 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 deg C and external glass exposed to temperature of minus 30 deg C.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Include elevations, edge details, hardware, and attachments to other work.

- C. Samples: For the following products, in the form of 15 x 18 -inch square Samples for glass.
- D. Warranties: Sample of special warranties.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs glass installers for this Product who are certified under the National Glass Association's Certified Glass Installer Program.
- B. Source Limitations for Insulating Glass Blind Systems: Obtain insulating glass blind systems from single source from single manufacturer.
- C. Glazing Publications: Comply with the following published recommendations:
 - 1. GANA's "Glazing Manual" unless more stringent requirements are indicated. Refer to this publication for definitions of glass and glazing terms not otherwise defined in this Section or in referenced standards.
 - 2. 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.
- 1.7 DELIVERY, STORAGE, AND HANDLING
 - A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- 1.8 PROJECT CONDITIONS
 - A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1.9 COORDINATION

A. Coordinate dimensions, including thickness, of insulating glass blind systems with dimensions of construction that receives insulating glass blind systems.

1.10 WARRANTY

- A. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form in which insulating-glass manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moistures, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

- B. Manufacturer's Special Warranty on Blinds: Manufacturer's standard form in which insulating glass blind systems manufacturer agrees to repair or replace blinds that fail or deteriorate within specified warranty period. Failure does not include blinds that have been exposed to temperatures greater than 220 deg F or external magnetic operator.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 – PRODUCTS

2.1 INSULATING GLASS BLIND SYSTEMS

- A. Insulating Glass Blind Systems: Magnetically-coupled gear-driven tilt mini-blind installed in sealed insulating glass, with externally-mounted magnet assembly that is coupled to an internal magnet that controls the tilting of blind slats. Force to tilt blind is less than 10 Newtons.
 - 1. Air Space: ³/₄ inch.
 - 2. Tilt Operator Type; specify:
 - a. Wand Operator: Magnet operator with acrylic wand.
 - b. Magnet knob operator.
 - c. Magnet cord operator with tensioner.
 - 3. Tilt Operator Location: manufacturer's standard.
- B. Horizontal Louver Blinds, Aluminum Slats:
 - 1. Slats: 6010-T8 aluminum alloy, 0.50-inch wide by 0.008-inch thick, with crowned profile.
 - 2. Spacing: Manufacturer's standard.
 - 3. Finish: One color, baked polyester paint ultra-violet-resistant finish.
 - 4. Head and Bottom Rails: 6063-T5 aluminum alloy, painted in coordinated color with slats. Side rails support head rail and provide spacing between blind and inside surface of glass.
 - 5. Ladder Tapes and Plisse 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 deg F. Internal mechanism has steel gears hardened on surface and bearings to reduce friction and support magnets.
 - 7. Colors, Textures, Patterns, and Gloss: Select from Manufacturer's standard color options:
 - a. #102 White
 - b. #149 Almond
 - c. #69 Tan
 - d. #157 Silver Anodized
 - e. #3000 Metalic Gold
- C. Insulating Glass Units: Clear insulating glass, factory assembled units consisting of sealed lites separated by a dehydrated interspace, 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.
 - a. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
 - b. All glass to be fully tempered float glass.
 - c. All Low-e glass (if specified) to be pyrolitic (hard coat) on surface #3.
 - 2. Glass Thickness: 1/8 inch, minimum. Provide glazing in thicknesses as needed to comply with requirements indicated.

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- 3. Overall Thickness of Insulated Glass Blind System Unit: 1 inch minimum.
- 4. Sealing System: Seal with manufacturer's standard sealant.
- 5. Spacer: Manufacturer's standard spacer material and construction.
- 6. Desiccant: Molecular sieve or silica gel, or blend of both.
- D. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide:

Kyler Industries 192 East 48th Street Holland, MI 49423 (616) 392-1042 (voice) (616) 392-3778 (fax) www.Kyler-Industries.com quotes@kyler-industries.com

E. Miscellaneous Glazing Materials: Refer to Division 8 Section "Glazing".

2.2 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 inch on each side between slats and spacer, for free movement of system and allowing thermal transmission of aluminum slats.
 - 2. Blind Width Tolerance: Plus zero; minus 1/16 inch.
 - 3. Blind Height Tolerance: Plus 3/8 inch; minus zero. Bottom rail engages pins in sidetrack with some slack and is slightly above lower spacer bar.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine framing for insulating glass blind system units, with Installer present, for compliance with requirements for installation tolerances, minimum required face or edge clearances, effective sealing between joints of framing members, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving insulating glass blind system units immediately before glazing. Remove coatings not firmly bonded to substrates.

3.3 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
- 3.4 ADJUSTING, CLEANING, AND PROTECTIONS
 - A. Remove protective film, clean glass, and position external magnet on glass aligned with internal

magnet to produce optimum tilt operation for smooth slat rotation of blinds (per manufacturer's instructions).

- 1. Remove nonpermanent labels, and clean surfaces.
- B. Protect insulating glass blind system units from damage immediately after installation by attaching crossed streamers to framing held away from glazing unit. Do not apply markers to security glazing surfaces.
- C. 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 as recommended in writing by insulating glass blind system manufacturer.
- D. 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.
- E. 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. Wash insulating glass blind system units as recommended in writing by insulating glass blind system manufacturer.

END OF SECTION 08813