

SECTION 12 21 11
BETWEEN GLASS BLINDS

PART 1 GENERAL

1.1 SYSTEM DESCRIPTION

- A. Horizontal metal slat louver blinds installed at door openings between two panes of hermetically sealed glass; operator that moves blades from closed position in one direction to closed position in opposite direction by means of a magnetic link or knob; operator that raises and lowers blinds. Provide blinds operable only from room side.

1.2 SUBMITTALS FOR REVIEW

- A. Submittals: Follow Section 01340.
- B. Shop Drawings: Submit shop drawings indicating opening sizes, tolerances required, installation of blind at window opening, method of attachment, clearances and operation
- C. Product Data: Submit product data indicating physical and dimensional characteristics and operating features.
- D. Samples: Provide two samples 12 inches long illustrating slats materials and finish, color, rod type and color.

1.3 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with three years experience.
- B. Single Source Responsibility: Provide products of this Section from one manufacturer.

1.4 FIELD SAMPLES

- A. Provide samples according to Section 01340.
- B. Construct a field sample panel, illustrating complete blind assembly with operable hardware and accessories.
- C. Provide field sample after submitted shop drawings are approved.
- D. If accepted, field sample will demonstrate minimum standard for the Work. Field sample may remain as part of the Work.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products in this Section.
- B. Deliver blinds to site wrapped and crated in a manner to prevent damage to components or marring of surfaces.
- C. Store in a clean, dry area, laid flat and blocked off ground to prevent sagging, twisting or warping.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Metal Slats, General: Prefinished 5086-H19, 6010-T8, or 6011 alloy aluminum; radiused slat corners with manufacturing burrs removed.
- B. Slat Support: Woven polypropylene or polyester, UV resistant, ladder configuration, 20.0 to 21.5 mm on center, color to match slats.
- C. Lift Cords: Rayon core covered by polyester Dacron jacket; 0.055 inch diameter; lift ring.
- D. Accessory Hardware: Type recommended by blind manufacturer.
- E. Finish: Manufacturer's pre-treatment and baked enamel antistatic antimicrobial finish, nominally 1.0 mil thick; free from lead, chromates and other heavy metals; color as selected by Contracting Officer from manufacturer's premium range.

2.2 FABRICATION

- A. Fabricate slats from ½ inch wide minimum by 0.008 inch thick minimum aluminum as measured before painting.
- B. Fabricate headrail from (nominal) 5/8" x 5/8" corrosion-resistant steel or 0.045" aluminum formed into a U-shaped profile with rolled edges, finish to match slats. Enclose hardware in headrail.
- C. Operate tilter with an externally mounted magnet assembly controls blind with an integral cord loop operator, knob operator or wand operator. Operator rotates external magnet, which drives an internal magnet with which it is coupled, this controls tilting of blind slats. Internal mechanism has steel gears hardened on surface and bearings to reduce friction and support magnets.
- D. Provide 7/32" or 1/4" hexagonal, solid steel tilt rod with corrosion resistant finish. Provide 0.036" steel, crash proof cord lock with corrosion-resistant finish.
- E. Fabricate bottom rail from 0.018" corrosion-resistant steel or 0.045" aluminum, finish to match slats. Form rail with a double-lock seam into a closed oval shape. Provide color-coordinated thermoplastic end caps. Provide hold-down pins to secure bottom rail to jamb or sill.

- F. Provide steel, polymer or nylon end locks.
- G. Do not pierce any part of blind assembly or extensions in hermetically sealed glazing units. Holes in glass or glazing plane are not permitted in non-hermetically sealed units.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify openings are ready to receive the work. Do not commence fabrication until field measurements are confirmed. Ensure structural supports are correctly placed.
- B. Provide necessary measurements and templates to window and door manufacturer to prepare for blind installation. Ensure cut-outs and preparatory work are correctly done.
- C. Notify Contracting Officer in writing of any discrepancies which would affect proper installation and operation of blind system. Install after discrepancies are corrected.
- D. Beginning of installation means acceptance of substrate.

3.2 INSTALLATION

- A. Install blinds according to follow manufacturer's instructions.
- B. Secure in place with flush countersunk fasteners.
- C. Adjust parts for smooth operation. Adjust controls so as not to interfere with door travel.

3.3 CLEANING

- A. Clean work.
- B. Clean blind surfaces just prior to occupancy.

END OF SECTION

