

**SECTION 12491
HORIZONTAL LOUVER BLINDS**

PART I - GENERAL

1.01 DESCRIPTION

- A. Scope: Work under this Section shall include all materials and installation necessary to provide Horizontal Louver Blinds including Miniblinds with aluminum louver slats as shown and detailed on the Drawings and specified herein.

1.02 SUBMITTALS

- A. Product Data: For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
- B. Shop Drawings: Show location and extent of horizontal louver blinds. Include elevations, sections, details, and dimensions not shown in Product Data. Show installation details, mountings, attachments to other Work, operational clearances, and relationship to adjoining work.
- C. Samples for Initial Selection: For each colored component of each type of horizontal louver blind indicated.
1. Include similar Samples of accessories involving color selection.
- D. Samples for Verification: For the following products, prepared on Samples from the same material to be used for the Work.
1. Louver Slat: Not less than 12" long.
 2. Tapes: Full width, not less than 6" long.
 3. Horizontal Louver Blind: Full-size unit, not less than 16" wide by 24" long.
 4. Valance: Full-size unit, not less than 12" wide.
 5. Cornice: Full-size unit, not less than 12" wide.
- E. Window Treatment Schedule: Include horizontal louver blinds in schedule using same room designations indicated on Drawings.
- F. Product Certificates: For each type of horizontal louver blind product, signed by product manufacturer.
- G. Product Test Reports: For each type of horizontal louver blind product.
- H. Maintenance Data: For horizontal louver blinds to include in maintenance manuals. Include the following:
1. Methods for maintaining horizontal louver blinds and finishes.

2. Precautions about cleaning materials and methods that could be detrimental to finishes and performance.
3. Operating hardware.
4. Motorized blind operator.

1.03 QUALITY ASSURANCE

- A. Source Limitations: Obtain horizontal louver blinds through one source from a single manufacturer.
- B. Fire-Test-Response Characteristics: Provide horizontal louver blinds with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 1. Flame-Resistance Ratings: Passes NFPA 701.
- C. Corded Window Covering Product Standard: Provide horizontal louver blinds complying with WCMA A 100.1.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver blinds in factory packages, marked with manufacturer and product name, and location of installation using same room designations indicated on Drawings and in a window treatment schedule.

1.05 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install horizontal louver blinds until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where horizontal louver blinds are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify University's Representative of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART II - PRODUCTS

2.01 MANUFACTURERS

2.02 Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Horizontal Louver Blinds, Aluminum Louver Slats:
 - a. Hunter Douglas Window Fashions - DÉCOR Blind

- b. Levolor Contract; a Newell Company; Levolor - Mark 1
- c. Springs Window Fashions Division, Inc.; Bali S3000

2.05 HORIZONTAL LOUVER BLINDS, ALUMINUM LOUVER SLATS Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:

B. Products: Subject to compliance with requirements, provide one of the following:

(CONSULTANT TO SPECIFY AND LIST**)**

- 1. Manufacturer's names; product designation.
 - a. Color:
 - b. Texture:
 - c. Pattern:
 - d. Gloss:
- C. Louver Slats: Aluminum, alloy and temper recommended by producer for type of use and finish indicated; with crowned profile and radiused corners.
 - 1. Nominal Slat Width: 1" for miniblinds.
 - a. Slat Spacing:
 - 2. Nominal Slat Thickness: Not less than 0.008".
 - a. Ionized Coating: Antistatic, dust-repellent, baked polyester finish.
- D. Headrail: Self molded steel or extruded aluminum; long edges returned or rolled; fully enclosing operating mechanisms on three sides and ends. Headrail/Valance: Decorative, integrated headrail/valance not requiring a separate valance or end brackets for finished appearance; Self molded steel or extruded aluminum; long edges returned or rolled; fully enclosing operating mechanisms on three sides and ends.
- F. Tilt Control: Consisting of enclosed worm gear mechanism and linkage rod, for the following operation:
 - 1. Tilt Operation: Manual with clear plastic wand.
 - 2. Tilt Operation: Motorized operator.
 - 3. Length of Tilt Control: Length to meet safety and ADA requirements.
 - 4. Tilt: Full.
 - 5. Tilt: One-direction, positive stop or lock out limited at an angle of 70° up from zero-degree horizontal.
- G. Lift Operation: Manual, cord lock; locks pull cord to stop blind at any position in ascending or descending travel.

- H. Lift Operation: Manual, top-locking cord lock; locks pull cord to stop blind in either fully opened or fully closed position only and is equipped with a ring pull not more than 4" long.
- I. Ladders: Evenly spaced to prevent long-term louver sag.
 - 1. For Blinds with Nominal Slat Width 1" or Less: Braided string.
- J. Mounting: **[Wall] [Ceiling] [End] [Wall extension brackets] [As indicated on Drawings,]** mounting permitting easy removal and replacement without damaging blind or adjacent surfaces and finishes; with spacers and shims required for blind placement and alignment indicated.
 - 1. Provide intermediate support brackets if end support spacing exceeds spacing recommended by manufacturer for weight and size of blind.
- K. Hold-Down Brackets and Hooks or Pins: Manufacturer's standard, as indicated.
- L. Colors, Textures, Patterns, and Gloss: As selected by University's Representative from manufacturer's full range.

2.06 HORIZONTAL LOUVER BLINDS FABRICATION

- A. Product Standard and Description: Comply with AWCMA Document 1029, unless otherwise indicated, for each horizontal louver blind designed to be self-leveling and consisting of louver slats, rails, ladders, tapes, lifting and tilting mechanisms, cord, cord lock, tilt control, and installation hardware.
- B. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
 - 1. Lifting and Tilting Mechanisms: With permanently lubricated moving parts.
- C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74°F:
 - 1. Blind Units Installed between (Inside) Jambs: Width equal to 1/4" per side or 1/2" total, plus or minus 1/8", less than jamb-to-jamb dimension of opening in which each blind is installed. Length equal to 1/4", plus or minus 1/8", less than head-to-sill dimension of opening in which each blind is installed.
 - 2. Blind Units Installed Outside Jambs: Width and length as indicated, with terminations between blinds of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- D. Installation Brackets: Designed for easy removal and reinstallation of blind, for supporting headrail [, **valance,**] and operating hardware, and for hardware position and blind mounting method indicated.
- E. Installation Fasteners: Not fewer than two fasteners per bracket, fabricated from metal noncorrosive to blind hardware and adjoining construction; type designed for securing to supporting substrate; and supporting blinds and accessories under conditions of normal use.

- F. Color-Coated Finish:
 - 1. Metal: For components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.
- G. Component Color: Provide rails, cords, ladders, and exposed-to-view metal and plastic matching or coordinating with slat color, unless otherwise indicated.

PART III - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, [**accurate locations of connections to building electrical system,**] and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 HORIZONTAL LOUVER BLIND INSTALLATION

- A. Install blinds level and plumb and aligned with adjacent units according to manufacturer's written instructions, and located so exterior louver edges in any position are not closer than [**1 inch**] to interior face of glass. Install intermediate support as required to prevent deflection in headrail. Allow clearances between adjacent blinds and for operating glazed opening's operation hardware, if any.
- B. Head Mounted: Install headrail on face of opening head.

3.03 ADJUSTING

- A. Adjust horizontal louver blinds to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.04 CLEANING AND PROTECTION

- A. Clean blind surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure that horizontal louver blinds are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged blinds that cannot be repaired, in a manner approved by University's Representative, before time of Substantial Completion.

END OF SECTION 12491