

SECTION 12494 - ROLLER SHADES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes roller shades.
- B. Related Sections include the following:
 - 1. Division 6 Section "Rough Carpentry" for concealed wood blocking for mounting roller shades and accessories.

1.03 SUBMITTALS

- A. General: Submit in accordance with Section 01330.
- B. 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.
- C. Shop Drawings: Show location and extent of roller shades. 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.
 - 1. Identify locations where blocking is required for attachment of support hardware.
- D. Samples for Verification:
 - 1. Shade Material: Not less than 12-inch- square section of fabric, from dye lot used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of material.
- E. Maintenance Data: For roller shades to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining roller shades and finishes.
 - 2. Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
 - 3. Operating hardware.

1.04 QUALITY ASSURANCE

- A. Source Limitations: Obtain roller shades through one source from a single manufacturer.
- B. Fire-Test-Response Characteristics: Provide roller shade band materials 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.

1.05 DELIVERY, STORAGE, AND HANDLING

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

1.06 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install roller shades 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 roller shades 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 Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.01 ROLLER SHADES

- A. Product: Manual FlexShade; Draper, Inc., or equal
- B. Band Material: Straight bottom hem with concealed kiln-dried hard maple slats, 1-1/4 inch by 5/16-inch minimum. Bands shall be double needle stitched and back-stitched with hems matching shades.
 - 1. Bottom Hem: Straight
 - 2. Material Openness Factor: 10 percent.
 - 3. Band Material: As follows:
 - a. Light Filtering Shades: PVC coated fiberglass yarn, woven into a full basket weave construction, 10.5 Oz./sq. yd., 10 percent openness factor.
 - 1) Product: Series SW2600.
 - 2) Color: Oyster/Beige, SW2920.
 - b. Room Darkening Shades: Provide opaque, close woven fiberglass base textile with sun-resistant vinyl film bonded to each side; fire retardant, washable and stain resistant.
 - 1) Product: Draper SunBloc Series SB9000.
 - 2) Color: As selected by Architect from manufacturer's full range.
- C. Rollers: Electro-galvanized or epoxy primed steel or extruded-aluminum tube of diameter and wall thickness required to support and fit internal components of operating system and the weight and width of shade band material without sagging; designed to be easily removable from support brackets; with manufacturer's standard method for attaching shade material. Provide capacity for one roller shade band per roller.
- D. Direction of Roll: Regular, from back of roller.
- E. Mounting Brackets: Galvanized or zinc-plated steel.

- F. Fascia: L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom of shade roller, brackets, and operating hardware and operators; removable design for access.
 - 1. Attachment: Snaps onto endcaps without requiring exposed fasteners of any kind.
 - 2. Color: Aluminum – clear anodized.

- G. Shade Operation: Manual; with continuous loop bead chain, clutch, and cord tensioner and bracket lift operator.
 - 1. Position of Clutch Operator: As indicated by Architect during Shop Drawing review.
 - 2. Clutch: Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
 - 3. Loop Length: Full length of roller shade.
 - 4. Bead Chain: Stainless steel.
 - 5. Cord Tensioner Mounting: Sill.
 - 6. Operating Function: Stop and hold shade at any position in ascending or descending travel .

- H. Mounting: Inside mounting permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.

2.02 ROLLER SHADE FABRICATION

- A. Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.

- B. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
 - 1. Lifting Mechanism: With permanently lubricated moving parts.

- C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F:
 - 1. Shade Units Installed between (Inside) Jambs: Edge of shade not more than 1/4 inch from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.

- D. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting fascia, roller, and operating hardware and for hardware position and shade mounting method indicated.

- E. Installation Fasteners: Not fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.

- F. Color-Coated Finish: For metal 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.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance.

- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 ROLLER SHADE INSTALLATION

- A. Install roller shades in strict accordance with manufacturer's instructions and recommendations. Install roller shades level, plumb, square, and true, and located so shade band is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware. Attach brackets to wood or steel substrates. Attachment to gypsum wallboard only is not permitted. Provide adequate screw length to securely fasten hardware to blocking and substrates. Field verify dimensions before fabricating.

3.03 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.04 CLEANING AND PROTECTION

- A. Clean roller shade 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 roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.05 ROLLER SHADE SCHEDULE

- A. Light-Filtering Roller Shade Locations: Provide roller shades at the following exterior window locations:
 1. Men #101
 2. Women #102
 3. Office 1 #109
 4. Office 2 #110
 5. Office 3 #111
 6. Office 4 #113
 7. Office 5 #115
 8. Drivethru #116
 9. Office 6 #122
- B. Room Darkening Roller Shades:
 1. Conference #105 – Exterior windows and interior doors & sidelight.