

SECTION 12 24 00
WINDOW SHADES

PART 1 - GENERAL

1.1 DESCRIPTION

Manually operated, roll-up fabric interior window shades are specified in this section. Window shades shall be furnished complete, including brackets, fittings and operating hardware.

1.2 RELATED WORK

- A. Color of shade and color of exposed parts of control mechanisms: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Section 06 10 00 - ROUGH CARPENTRY: Blocking for support of window shade hardware.
- C. Section 07 92 00 - JOINT SEALERS: Sealants for perimeter of shade system.
- D. Section 09 29 00 - GYPSUM BOARD: Suspended gypsum board ceilings to contain recessed window shade pockets.
- E. Section 09 51 00 - ACOUSTICAL CEILINGS: Suspended acoustical panel ceilings to contain recessed window shade pockets.

1.3 QUALITY CONTROL

Manufacturer's Qualification: manufacturer shall provide evidence that the manufacture of shades are a major product, and that the shades and all components and hardware have performed satisfactorily on similar installations.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Samples:
 - 1. Shade fabric, each type, 305 mm (12 inch) square, including cord and ring, showing color, finish and texture.
 - 2. Fascia L-shaped aluminum extrusion showing color and finish.
- C. Manufacturer's literature and data; showing details of construction and hardware for:
 - 1. Window shades.
 - 2. Manually operated controls.
 - 3. Mounting hardware and brackets.

1.5 WARRANTY

- A. Hardware and Shade Fabric: Manufacturer's standard twenty-five year limited warranty.

1.6 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced to in the text by the basic designation only.
- B. Federal Specifications (Fed. Spec.):
AA-V-00200B.....Venetian Blinds, Shade, Roller, Window, Roller, Slat, Cord, and Accessories
- C. American Society for Testing and Materials (ASTM):
A167-99(R2009).....Stainless and heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip
B221/B221M-08.....Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
D635-10.....Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position
D648-07.....Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
D1784-08.....Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- D. FPA 70 - National Electrical Code.
- E..GREENGUARD Environmental Institute Children & Schools
- F..US Green Building Council.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Fabric Shades
1. Light-Filtering (Sheer translucent):
 - a. VOC Emissions: GREENGUARD Children & Schools certified as a low emitting fabric. Manufacturer to supply GREENGUARD Children & Schools certificate.
 - b. 500 denier fiberglass, vinyl coated and woven into a 2 by 2 basket weave.
 - c. Fire rating: NFPA 701-1999TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1).
 - d. Bacterial and Fungal Resistance: ASTM G 21 and ASTM G 22.

- e. 14.26 oz/sq yd, 0.5 mm (0.019 inch)thick.
- f. Average 5% and 1% percent open.
- 2. Opaque:
 - a. VOC Emissions: GREENGUARD Children & Schools certified as a low emitting fabric. Manufacturer to supply GREENGUARD Children & Schools certificate.
 - b. 500 denier fiberglass, vinyl coated.
 - c. Fire rating: NFPA 701-1999TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1).
 - d. Bacterial and Fungal Resistance: ASTM G 21 and ASTM G 22.
 - e. 14.26 oz/sq yd, 0.5 mm (0.019 inch) thick.
- B. Padded Cornice Board
 - 1. Fabric:
 - a. Pattern: FAB3, FAB6
 - b. Fire rating: NFPA 701-1999TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1).
 - c. Bacterial and Fungal Resistance: ASTM G 21 and ASTM G 22.
 - d. 100% FR Polyester
 - e. Dimensions: 12" high x 8" returns, straight.
- C. Stacked Fixed Panels
 - 1. Fabric:
 - a. Pattern: FAB4, FAB7
 - b. Fire rating: NFPA 701-1999TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class 1).
 - c. Bacterial and Fungal Resistance: ASTM G 21 and ASTM G 22.
 - d. 100% FR Polyester
 - e. Dimensions: 12" fixed, stacked pleat/accordion fold at side of window (non-operable), 4" drop from bottom of window sill.
Straight.

2.2 FABRICATION

- A. Manually Operated Window Shades with Independent Control: Manually operated, vertical roll-up, fabric window shade with components necessary for complete installation.
 - 1. Operation: Bead chain and clutch operating mechanism allowing shade to stop when chain is released. Designed never to need adjustment or lubrication. Provide limit stops to prevent shade from being raised or lowered too far.
 - a. Clutch mechanism: Fabricated from high carbon steel and molded fiberglass reinforced polyester or injected molded nylon.

- b. Bead chain loop: Stainless steel bead chain hanging at side of window.
 - c. Idler Assembly: Provide roller idler assembly of molded nylon with adjustable length idler pin to facilitate easy installation, and removal of shade for service.
2. Mounting:
- a. End caps and fascia, unless noted otherwise.
3. Roller Tube: Fabricated from extruded aluminum, galvanized steel, or enameled steel. Diameter, wall thickness, and material selected by manufacturer to accommodate shade type and size. Fabric connected to the roller tube with LSE (low surface energy) double sided adhesive specifically developed to attach coated textiles to metal. Adhesive attachment to eliminate horizontal impressions in fabric.
4. Shade slat: Slat encased in heat seamed hem.
5. Fascia: L shaped aluminum extrusion to conceal shade roller and hardware.
- a. Attachment: Snaps onto end caps without requiring exposed fasteners of any kind. Fascia can be mounted continuously across two or more shade bands.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Window Shades: Mount window shades on end of face brackets, set on metal gussets, or casing of windows as required. Provide extension face brackets where necessary at mullions.
- 1. Locate rollers in level position as high as practicable at heads of windows to prevent infiltration of light over rollers.
 - 2. Where extension brackets are necessary, on mullions or elsewhere, for alignment of shades, provide metal lugs, and rigidly anchor lugs and brackets.
 - 3. Place brackets and rollers so that shades will not interfere with window and screen hardware.
 - 4. Mount shades at wire mesh window guards on head rails of hinged frame.
 - 5. Mount shades at detention, or protection screens on head rail (room side) of hinged frame, with face brackets located approximately 38 mm (1-1/2 inches) from outside edges.
 - 6. Shade installation methods not specifically described, are subject to approval of COR Interior Designer or COR Project Engineer of project.

7. Install in accordance with manufacturer's instructions.
8. Install roller shades level, plumb, square and true. Allow proper clearances for window operation hardware in accordance with manufacturer's recommendations and instructions.
9. Install the following items to conceal roller and operating mechanism. Do not use exposed fasteners.
 - a. Fascias.
10. Test window shades to verify that operating mechanism, fabric retainer, and other operating components are functional. Correct deficiencies.
 - a. Chair and clutch.
 - b. Demonstrate operation of shades to VA Interior Designer or COR prior to leaving job site.
11. Protect installed products until completion of job.
12. Touch-up, repair or replace damaged products before Substantial Completion.
13. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings, field verified window dimensions, quantities, type of shade, controls, fabric and color and include opening sizes and key to typical mounting details.
14. Install roller shades after finish work and ambient temperature, humidity and ventilation conditions are maintained at levels recommended for project upon completion.
15. Do not deliver window shades until building is enclosed and construction within spaces where shades will be installed is substantially complete.

3.2 WINDOW SHADE SCHEDULE

Room Type/Name	Window Shade Type	Fabric Type	Remarks
Bedroom	Single roller	Light-filtering	
Multipurpose	Dual roller	Light-filtering (room side) & Opaque (outside)	
Seasonal Enclosure	Single roller	Light-filtering	Recessed headbox mounting
Living Room	Dual roller	Light-filtering (room side) & Opaque (outside)	
Dining Room	Dual roller	Light-filtering (room side) & Opaque (outside)	

Quiet Room	Dual roller	Light-filtering (room side) & Opaque (outside)	
Corridor	Single roller	Light-filtering	
Bathing Suite	Single roller	Light-filtering	
Laundry	Single roller	Light-filtering	
Soiled Utility	Single roller	Light-filtering	
Bathroom (Isolation Rm)	Single roller	Light-filtering	

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