

**SECTION 12 24 22  
LIGHT FILTERING SHADES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

Provide 3% open light filtering shades where indicated.

**1.2 RELATED WORK**

- A. Section 09 06 00, SCHEDULE FOR FINISHES for Shade Fabric Colors.
- B. Section 09 29 00, GYPSUM BOARD.
- C. Section 09 51 00, ACOUSTICAL CEILINGS.

**1.3 SUBMITTALS**

- A. In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, furnish the following:
- B. Manufacturers' Literature and Data: Showing details of construction and hardware for Light Filtering Shades.

**1.4 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. Federal Specifications (Fed. Spec.):  
A-A-59517.....Cloth, Coated or Laminated, Polyvinylchloride  
(Artificial Leather)

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Shade Cloth: Fabricate for a crackproof and fadeproof material that will remain soft and pliable at all times under temperature changes. Shade cloth shall conform to fire resistant requirement of Fed. Spec. A-A-59517, and shall be same color on both sides.
- B. Cords for Shades: Metal bead chain type.
- C. Fastenings: Zinc-coated or cadmium plated metal, aluminum or stainless steel fastenings of proper length and type. Except as otherwise specified, fastenings for use with various structural materials shall be as follows:

Type of Fastening	Structural Material
Wood screw	Wood
Tap Screw	Metal
Case-hardened, self-tapping screw	Solid masonry Sheet metal
Toggle bolts	Hollow blocks, wallboard plaster

D. Housings: Headrail housing to be dark bronze anodized.

## 2.2 FABRICATION

- A. Light filtering shades shall be metal head housing, and shall be complete with roller assembly, one piece (3% open) light filtering shade cloth.
- B. Rollers shall be of aluminum or stainless steel of sufficient diameter to support the shade, and provided with spindles, bearings and coil springs. Provide rollers with a groove and metal spline with aluminum, or stainless steel machine screws spaced not over nine inches on centers, for attaching the shade cloth.
- C. Shades not finished with a selvage shall have vertical edges bound or hemmed to prevent raveling. Sewing shall be double or triple stitched, using a high-grade thread.
- D. Stiffen the shade by transverse steel bars of size and weight to hold the shade in the channel guides. Space bars approximately 450 mm (18 inches) on centers and conceal in pockets in the shade. Fit bottom edge of the shade with a steel operating bar designed to engage the sill channel of the light trap. Paint bars with flat black enamel.
- E. Cords: Fit operating bar with metal bead type looped pull cord.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

Install light filtering shades level at a height that will permit proper operation of the shades, and minimize filtered light from entering into the room. Shades shall not be installed until after the room painting and finishing operations are complete.

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