SECTION 12 24 13
ROLLER WINDOW SHADES

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes roller shades.

1.02 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: For each exposed finish and for each color and texture required.

C. Maintenance data.

1.03 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: Provide products passing flame-resistance testing according to NFPA 701 by a testing agency acceptable to authorities having jurisdiction.

B. Comply with WCMA A 100.1.

PART 2 - PRODUCTS

2.01 ROLLER SHADES

A. Basis-of-Design Product: Subject to compliance with requirements, provide Lutron Shading Solutions by VIMCO; Manual Roller Shades or a comparable product by one of the following:
   1. Draper Inc.
   2. Hunter Douglas, Inc.; Hunter Douglas Window Fashions Division.
   3. MechoShade Systems, Inc.

B. Shade Band Material, at Perimeter Windows: PVC-coated polyester.
   1. Colors: Lutron, SP-12-90.
   2. Material Openness Factor: 3 percent.

C. Shade Band Material, at Teller Window: PVC-coated polyester.
   1. Color: Lutron, BN-904 Oyster.
   2. Material Openness Factor: Blackout.

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.

G. Top/Back Cover: L-shaped, 3 inches high; material and finish to match fascia; combining with fascia and end caps to form a six-sided headbox enclosure sized to fit shade roller and operating hardware inside.

H. Bottom Bar: Steel or extruded aluminum. Provide concealed, by pocket of shade material, internal-type; except provide exposed-to-view, external type for blackout shades.

I. Mounting: Between window jambs, as indicated on Drawings.

J. Shade Operation: Manual; with continuous-loop bead-chain, clutch, and cord tensioner and bracket lift operator.

2.02 ROLLER SHADE FABRICATION

A. 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.

B. 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.

C. Installation Fasteners: No 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.

PART 3 - EXECUTION

3.01 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions, and located so shade band is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

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

C. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

END OF SECTION 12 24 13