

SECTION 124920- SOLAR SHADES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Solar Shades

1.2 SUBMITTALS

- A. Product data: Manufacturer's complete CSI 3- part specification sheet.
- B. Samples:
 - 1. Submit working hand sample or mock up shade as required.
 - 2. Submit two 6" samples of shade fabric.

1.3 DELIVERY, STORAGE AND HANDLING

- A. Product to be delivered in manufacturer's original packaging.
- B. Products to be handled and stored to prevent damage to materials, finishes and operating mechanisms. Store in a clean, dry area, laid flat to prevent sagging and twisting of packaging.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. **Mecho Systems, Inc.** or architect approved equivalent.
- B. Substitutions Request: Submit for approval under provisions of section 01600.

2.2 CELLULAR SHADES

- A. Product: Mecho Systems, Inc. Mecho/5 manual shade system
- B. **Solar Shade Fabric: Select from NFPA 701-1999 FR and ASTM-G21 and G22 Bacteria and Fungal Resistance approved:**
 - 1. **Shades**
 - a. **Fabric Style: Refer to finish legend on Drawing I110.**
 - b. **Color Name: Refer to finish legend on Drawing I110.**
 - c. **Location: As indicated on the drawings.**
 - d. **Housing color: Refer to finish legend on Drawing I110.**
- C. Roller Tubes: Shall be an extruded aluminum tube with a wall thickness of .050", incorporating two internal locking channels running the length of the tube for added strength and durability. Shade material will be attached to the tube by placing fabric end into internal locking channel and inserting a vinyl strip the length of the tube, locking fabric into place.

- D. Clutch Systems: Shall be a wrap spring design with high strength acetal and glass filled nylon components. Spring shall be stainless steel and will raise and lower the shade by means of a continuous #10 stainless steel bead chain.
- E. Clutch Operation will be by means of a continuous #10 Stainless Steel bean chain providing a positive lifting and lowering of the shade.
- F. Idle End is made of nylon with a spring-loaded center pin for smooth and quiet operation.
- G. Roll Orientation: Standard will be fabric coming from backside of tube closest to the window.
 - Optional:
 - Reverse roll will have fabric coming over the roller tube (not available with fascia),
- H. Bottom Hem Bar will be extruded aluminum measuring 1.2" high by .58" deep with a .050" wall thickness. The room facing side of the hem bar will be fabric wrapped with the fabric secured by a vinyl locking strip insert at the top and bottom of the bar. The backside of the bar will be either white, anodized silver or bronze with color coordinated injection molded thermoplastic end plugs.
- I. Installation brackets without fascia shall be .060" thick and available in white or black and shall facilitate side, rear and top mounting applications. For shades with fascia option, brackets shall measure .065" thick and color coordinated to match fascia.
- J. Options:
 - 1. Fascia will be extruded aluminum measuring .075" thick, snap in locking system and will enclose the roller tube and mounting brackets.
 - a. Color: **to match adjacent windows as indicated on drawings.**
 - 2. Side Channels will be extruded aluminum measuring 1.25" by 2.06" with a wall thickness of .060". Side channels will include a mole hair weather stripping insert.
 - a. Color: **to match adjacent windows as indicated on drawings.**
 - 3. Sill Channels will be extruded aluminum measuring 1.25" by 2.06" with a wall thickness of .060". Sill channels will include a mole hair weather stripping insert.
 - a. Color: **to match adjacent windows as indicated on drawings.**

2.3.1 FABRICATION

- A. Shades shall be fabricated according to specifications and accurate to tolerance established by SWF engineering standards. **Divide shades at center of window mullions. Refer to drawings. Field measure.**

PART 3 EXECUTION

3.01 INSPECTION

- A. Installer shall be responsible for inspection of jobsite, approval of mounting surfaces, verification of field measurements and installation conditions. Installation shall commence when satisfactory conditions are met.

3.02 INSTALLATION

- A. Install shades in accordance with manufacturer's instructions including recommended support brackets and fasteners.
- B. Install shades with adequate clearance to permit smooth operation of the blinds. Demonstrate blinds to be in smooth, uniform working order.

3.03 MAINTENANCE AND CLEANING

- A. Maintain and clean shades in accordance with manufacturer's instructions.

END OF SECTION 124920