

### PART 1 - GENERAL

#### 1.01 DESCRIPTION

- A. Furnish and install Solar Shades provided by Springs Window Fashions, LLC, 7549 Graber Road, Middleton, WI 53562 in accordance with specifications, drawings and contract documents.

#### 1.02 SUBMITTALS

- A. Manufacturer's complete CSI 3-part specification sheet.
- B. Product Sample: Submit working hand sample or mock up shade as required.
- C. Color Sample: Submit two 4" x 6" samples of shade fabric material indicating color and dimensions.

#### 1.03 DELIVERY, STORAGE AND HANDLING

- A. Product to be delivered to jobsite 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.

#### 1.04 PROJECT

- A. Building shall be enclosed; and windows, frames and sills shall be installed and glazed.
- B. Wet work shall be complete and dry.
- C. Ceilings, window pockets, electrical and mechanical work above window covering shall be complete.
- D. Electrical power (110 volt AC) shall be available for installer's tools within 500 feet of product installation areas.

#### 1.05 QUALITY ASSURANCE

- A. Installer shall be qualified to install specified products by prior experience and approved by Springs Window Fashions LLC (SWF). Installer shall be responsible for acceptable installation in accordance with instructions published by SWF.

#### 1.06 LIMITED LIFETIME WARRANTY

- A. Springs Window Fashions LLC (SWF) warrants the product against original defects in materials or workmanship for the life of the shade not to exceed 25 years from the date of shipment. SWF does not warrant damage due to accidents, misuse, abuse, improper installation, alterations or improper cleaning. Detailed specifics of the warranty are available upon request.

### PART 2 - PRODUCTS

#### 2.01 ACCEPTABLE MANUFACTURERS

- A. Springs Window Fashions LLC or architect approved equal.
- B. Substitution Request: Submit for approval under provisions of section 01600.

#### 2.02 SOLAR SHADES

- A. Product: SWFcontract manual solar shades
  - a. Solar shade fabric shall be flame retardant, fade and stain resistant, anti-static, anti-microbial and pass NFPA 701-1999 FR and ASTM-G21 and G22. Shades with railroaded fabric will have heat-welded seams. Fabric shall be selected by architect from SWFcontract fabric collection.
    - 1. solar fabrics ranging from 1% to 10% openness
    - 2. blackout fabrics
    - 3. GREENGUARD® certified and PVC-free fabrics
  - b. Roller tube shall be extruded aluminum engineered with a channel to accept fabric spline. The tube size will be determined by the manufacturer based on window size and fabric selection.
  - c. Clutch system shall be made of glass-reinforced, polyester thermopolymer (PBT) for wear resistance, smooth operation and corrosion resistance. The clutch is comprised of multi-banded, steel springs that lock the shade in any position when operating the control loop. The clutch mechanism is bi-directional and never requires adjustment or lubrication.
  - d. Control loop shall be a #10 stainless steel bead chain. Bead stops attached to the chain protect the shade from over rotation. Optional plastic bead chain is available in vanilla and black.
  - e. Idler end shall be made of high strength, glass-reinforced, polyester thermopolymer (PBT) for wear resistance, smooth operation and corrosion resistance.
  - f. Lift assist system shall be a heavy-duty torsion spring located inside the roller tube. The mechanism reduces the pull force allowing easy lifting of larger shades.
  - g. Spline system shall consist of a PVC spline heat-welded to the shade fabric and inserted into a channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric panels in the field.
  - h. Hem bar shall be an aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends. Optional fabric wrapped hem bar.

- i. Battens shall be enclosed in a heat-welded pocket providing additional stabilizing on large shades. Batten placement will be determined by manufacturer based on window size and fabric selection.
- j. Installation brackets shall be .125" thick steel and can accommodate overhead, side and face mounting. Optional dual shade brackets shall hold two shades in one bracket assembly. Coupled shades shall be connected with a linking bracket mechanism.

### 2.03 OPTIONAL ACCESSORIES

- a. Fascia panel shall be either 3", 4" or 7.625" dual shade snap-on design and made of .062" extruded 6063 T-5 aluminum alloy with a powder-coated finish. Brackets shall be universal and painted to match the fascia panels. Fascia is available in white, vanilla, clear anodized, bronze or black.
- b. Shade pocket shall be 4.75" x 5" powder-coated extruded 6065-aluminum alloy or 7.5" x 8" powder-coated steel. SWF shall provide appropriate dimensional pocket as necessary to enclose roller tube and fabric. 4.75" x 5" pockets available in white, clear anodized or bronze anodized and 7.5" x 8" pocket available in white only.
- c. Closure plate shall be exposed, flush mounted, powder-coated extruded 6065-aluminum alloy designed to provide access to shades when recessed in ceiling. Plates are available in 2", 3" or 5" with or without a tile support for acoustical tiles. Closure plates available in white, clear anodized or bronze anodized.
- d. Side, sill and/or center channel shall be a two-piece design and made of powder-coated extruded 6065-aluminum including synthetic pile inserts to eliminate light leakage. Side and sill channel measures 2" x 1". A center channel measuring 4" x 1" is provided for coupled blackout shades. Side, sill and center channels available in white, clear anodized or bronze.

### 2.04 FABRICATION

- A. Shades shall be fabricated according to specifications and accurate to tolerance established by SWF engineering standards.
- B. Fabricate shades to hang flat without buckling or distortion.

## 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 shades. Installer will demonstrate shades to be in smooth, uniform working order.

### 3.03 MAINTENANCE AND CLEANING

- A. Shades may be vacuumed with a soft brush attachment or cleaned with mild soap and water only. Do not use cleaning methods involving heat, bleach, abrasives, or solvents. Use of these methods will void the warranty.