

## PART 1 - GENERAL

### 1.01 DESCRIPTION

- A. Furnish and install Motorized 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 LLF (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. Motor and

controls are warranted for five years from date of shipment. SWF does not warrant damage due to accidents, misuse, abuse, improper installation, improper wiring, alterations or improper cleaning. Detailed specifics of the warranty are available upon request.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURE AND PRODUCT DESCRIPTION

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

### 2.02 MOTORIZED SOLAR SHADES

- A. Product: SWFcontract motorized solar shade
  - 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 fabric
    - 3. GREENGUARD® certified and PVC-free fabrics
  - b. **Motor** shall be Somfy® tubular, asynchronous motor with built in reversible capacitor, totally enclosed, temperature Class A, thermally protected maintenance free with line voltage power supply. Motor shall be concealed inside the roller tube. Motor size to be determined by shade manufacturer to insure proper operation based on window size and fabric selection and not to exceed 80 percent of the motor and tube assembly rated lift capacity. Shades in the same room must have motors rated at the same nominal speed.
    - 1. Low voltage 12V DC / 24V DC motors
    - 2. Standard 110V-120V AC motors
    - 3. RTS standard 110V-120V motors
    - 4. Intelligent Motor (ILT) standard 110V-120V AC motors

- c. **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.
- d. **Idler end** shall be made of galvanized steel for wear resistance and smooth operation.
- e. **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.
- f. **Hem bar** shall be an aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends. Optional fabric wrapped hem bar.
- g. **Battens** enclosed in a heat-welded pocket provided for additional stabilizing on large shades. Batten placement will be determined by the manufacturer based on window size and fabric selection.
- h. **Installation brackets** shall be galvanized 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.
- i. **Idle end bracket** shall be adjustable allowing shades to be leveled while in place.
- f. **Side, sill and/or center channel** shall be a two-piece design and made of powder-coated extruded 6065-aluminum alloy 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 are 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.

### 2.03 OPTIONAL ACCESSORIES

- a. **Individual control** shall be operated by a toggle or key-operated three-position wall switch.
- b. **Group control** shall operate up to 12 motors with a toggle or key-operated three-position wall switch.
- c. **Fascia panel** shall be either 3" (low voltage systems only), 4.25" or 7.625" dual shade snap-on design and made of 0.62" thick 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.
- d. **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 enclosed shade 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.
- e. **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.

## 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.
- C. Architectural and electrical drawings may or may not indicate the motor or motor controller wiring. All motors and controllers must be wired according to specifications and wiring diagrams prior to installation of motorized shades, as provided by installer/dealer, according to manufacturer's product requirements.

### 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.