



EcoGreen Solar Shades, LLC.

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Motorized Solar Shade Specification

Part 1 – General

1.01 Description

- A. Furnish and install Motorized Solar Shades provided by EcoGreen Solar Shades, LLC 7603 First Place Rd. Unit B7, Oakwood Village, OH 44146 in accordance with specifications, drawings and contract documents.

1.02 Submittals

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

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 or package.

1.04 Project

- A. Building shall be enclosed; and windows, frames, and sill 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.

1.05 Quality Assurance

- A. Installer shall be qualified to install specified products by prior experience and approved by EcoGreen Solar Shades, LLC. Installer shall be responsible for acceptable installation in accordance with instructions published by EcoGreen Solar Shades, LLC.

1.06 Warranty

- A. EcoGreen Solar Shades, LLC 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 5 years from the date of shipment. EcoGreen Solar Shades 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 Manufacturer and product description

- A. EcoGreen Solar Shades, LLC or architect approved equals.
- B. Substitution Request: Submit for approval under provision of section 01600.

2.02 Motorized Solar Shades

A. EcoGreen Solar Shades motorized 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 railroded fabric will have heat-welded seams. Fabric shall be selected by architect from EcoGreen Solar Shade 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, and 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 splice 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 eases 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) 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.
- h) Idle end bracket shall be adjustable allowing shades to be leveled while in place.

2.03 Optional Accessories

- a) Individual control shall be operated by a toggle or key operated three position wall switches.
- b) Group control shall operate up to 12 motors with a toggle or key operated three position wall switches.
- c) Fascia panels shall be 3", 4.25", 7.625" dual shade snap-on design and made of .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 whit, vanilla, clear anodized, bronze, or black

- d) Shade pocket shall be 4.75" x 5" or 7.5" x 8" powder-coated extruded 6065 aluminum alloy.
- e) Closure plate shall be exposed, flush mounted powder-coated extruded 6065 aluminum alloy designed to provide access to shades when recessed in ceiling. Available in 2", 3", 5".
- f) Side and sill channel shall be power-coated extruded 6065 aluminum alloy including synthetic pile inserts to eliminate light leakage.

Part 3 – Execution

3.01 Inspection

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

3.02 Installation

- A. Install 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 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 warranty.