

**SECTION 122405
WINDOW SHADE SYSTEMS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Motorized window shades and accessories for sun/glare/heat control and room darkening.

1.02 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog data, product descriptions, installation instructions, detail sheets, and specifications for each type system specified.
- C. Samples for Selection: Manufacturer's color chart or sample set.
- D. Shop Drawings: Prepared specifically for this project; show dimensions and interface with other products.
 - 1. Room schedule including field-verified dimensions of each opening to receive window shade systems.
 - 2. Indicate System Series, operator, fabric selection, and mounting type.
 - 3. Indicate control type.
 - 4. Wiring diagrams.

1.03 QUALITY ASSURANCE

- A. Installer: Approved by manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in manufacturer's original cartons.
- B. Individually package and mark shades with room number and opening number.
- C. Inspect the materials upon delivery to assure that specified products have been received.
- D. Store and handle shades to prevent damage to fabrics, finishes, and operators prior to installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: DFB Sales, Inc.
- B. Substitutions: See Section 01 6000 - Product Requirements.

2.02 MANUFACTURED UNITS

- A. Sol-R-Shade; Motorized with 9500 Series, Opaque Shade cloth.

2.03 FABRICS

- A. Sol-R-Shadecloth; (0% openness factor) 100% Opaque, 48% fiberglass and 52% acrylic.
 - 1. Fire retardant.
 - 2. Achieve 100% blackout, as indicated, when used with the Sol-R-Shade headbox and side and sill channels.
 - 3. Color: As selected from manufacturers standards.

2.04 COMPONENTS

- A. Tubes: 2-1/4 inch outside diameter extruded aluminum with 0.080 wall, having not more than 0.010 inch deflection over 12 feet for a 10 ft high shade; roller assembly easily removable.
 - 1. Fabric shall make 1-1/2 revolutions around tube in down position.
- B. Mounting Brackets: 1/8 inch thick galvanized steel, fabricated as required for ceiling mounting.
 - 1. Motor-end bracket shall have a locking mechanism for holding motor.
 - 2. Idle-end bracket shall have a nylon swivel ball to ensure non-binding rotation.
- C. Motor: Encased in an extruded aluminum tube, incorporating built-in limit switches and thermal overload protection; sound insulated

- D. Motor Coupler: Provide for motorized shades where more than one shade is motorized; machined from solid aluminum, sized to roller, half-lapped and double bolted at each motor to allow ease of installation and service of motor.
- E. Ceiling Pockets: Four-sided, interlocking box and cover custom-extruded of 0.050 inch thick aluminum.
 - 1. Size: 4-1/2 inches.
- F. Side Channels: Custom extruded aluminum 0.060 thick with light-lock pile insert.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install window shade systems in accordance with manufacturer's instructions and these specifications.
- B. Assume responsibility for all field dimensions and mounting surfaces.
- C. Adjust window shade systems for proper operation.

END OF SECTION