

GUIDE SPECIFICATIONS

Top-quality architectural shading systems for optimum solar control

PART I – GENERAL

1.01 Scope

- A. Furnish and install Elizabeth Shutters shading systems, provided by Elizabeth Shutters.
- B. Related work specifications elsewhere.

1.02 Quality Assurance

- A. Installer Qualifications
 - 1. The installer shall be from a firm qualified to install the product specified, as demonstrated by prior experience.
- B. Job Mock up: A sample shade may be installed on the jobsite prior to the beginning of the project.

1.03 Submittals

- A. One complete shade assembly, including components listed in Part II-Products shall be submitted through the architect for approval by the contracting officer.
- B. If requested, working drawings of assembly and mounting details shall be submitted. If required, typical installation recommendations (manufacturer's general product drawing) shall be submitted.
- C. If requested, written certification attesting to the fabric's fire retardant properties shall be submitted.

1.04 Delivery, Storage and Handling

- A. Packaging and shipping:
 - 1. Materials shall be stored in a clean area, free of corrosive fumes and dust and away from construction activities.
 - 2. Materials shall be stacked horizontally using plastic or wooden shims such that drainage and ventilation are provided for, and such that water cannot accumulate in, about, or upon the container.
 - 3. Stacks shall be covered with tarpaulins or plastic to prevent contaminants from contacting surfaces, while also allowing for ventilation.

1.04 Project/Site Conditions

- A. Roof must be tight, windows and frames installed and glazed and interior doors hung.
- B. Wet work including concrete, masonry, plaster, stucco, terrazzo, sheet rock, spackling, and taping (including sanding) shall be complete and dry.
- C. Ceilings, window pockets, and electrical and mechanical work above the product shall be complete.
- D. Electrical power (110 volt AC) shall be available for installers' tools within 500 ft of product installation areas.

1.05 Warranty

- A. Product warranted against manufacturing defects in materials and workmanship for 10 years. Detailed warranty information is available upon request and included in Elizabeth Shutters Terms and Conditions of Sale.
- B. Fabric warranted for intended use-interior for 10 years. Exterior shade fabric is not warranted for manual mechanisms.
- C. Motors are warranted 5 years.
- D. Elizabeth Shutters shall have the option to either repair or replace the defective product. Elizabeth Shutters is not liable for any injury, loss or damage, direct or consequential, arising out of the use of, or inability to use the equipment.

PART II – PRODUCT

2.01 Manufacturer and Product Description

- A. Acceptable Product: Elizabeth Shutters shading systems installed by Elizabeth Shutters.
- B. Materials:
 1. Roller tube shall be (select applicable paragraph):
 - a. ½ " OD Aluminum extrusion tube (w/R16). Fabric shall be affixed to the roller with a vinyl interconnect strip welded to the fabric and inserted into a groove in the tube.
 - b. 2 ½ " OD Aluminum extrusion tube (w/R24). Fabric shall be affixed to the roller with a vinyl interconnect strip welded to the fabric and inserted into a groove in the tube.
 2. Clutch shall be:
 - a. R16 clutch is a wrap spring design. The material is an engineered high strength, glass reinforced Valox polyester or Type 6 nylon by GE Plastics. It shall incorporate 3 high-carbon steel springs to transmit motion from driving to driven members of clutch mechanism. Clutch shall operate bi-directionally using an endless beaded chain.
 - b. R24 clutch is a wrap spring design. The material is an engineered high-strength, glass reinforced Valox polyester or type 6 nylon by GE Plastics. It shall incorporate 5 high carbon steel springs to transmit motion from driving to driven members of clutch mechanism. Clutch shall operate bi-directionally using an endless beaded chain.
 3. Idler shall be of high strength glass reinforced Valox polyester, consisting of an outside sleeve and center shaft. Sleeve shall provide bearing surface for roller tube and shall rotate freely on center shaft, providing smooth, quiet and long wearing operation. A spring lift assist is used on shades over 10 lbs on R16 and 12 lbs on R24 mechanisms.
 4. Control loop shall be endless qualified #10 stainless steel ball chain. Control loop shall be of sufficient length to operate from a convenient position (minimum ¾ length of shade.)
 5. Installation brackets for each end of the roller tube shall be .0125" thick steel. Brackets shall accommodate overhead, side or face mounting with the clutch assembly on either end of roller.
 6. Shade fabric shall be (select applicable paragraph):
 - a. Elizabeth Shutters fabric number _____ and name _____
 - b. Fabric to be selected from line of standard Elizabeth Shutters fabrics consisting of a PVC coated fiberglass, polyester, or a combination of polyester and fiberglass.
 - c. Fabric shall be cut square with sonic blade cutting machines.
 - d. Fabric shall hang straight and flat without buckling or distortion. Fabric to be adequately heat set at cross links of fabric to prevent unraveling.
 - e. Fabric shall be available in a range of openness factors for various solar optical properties. Variations in fiber density and striations inherent in woven fabrics shall be within commercially accepted standards.
 - f. Fabric shall be flame retardant and fade resistant to commercially acceptable standards.
 - g. Single shades shall be seamless vertically in widths from 72" – 120" depending on selected fabric. For wider applications, fabric shall be rotated 90° and horizontally seamed.
 7. Hembar bottom weight shall be custom shape with aluminum extrusion profile enclosed in a permanently heat-welded fabric hem pocket.
 8. Optional features:
 - a. 3" and 4" fascia panels shall be .062" extruded aluminum with a high quality enamel finish. Panel shall snap securely onto mounting brackets concealing roller tube and mounting hardware. Fascia mounting brackets for each end of the roller tube and support fascia to be at least 0.60" thick steel with a high quality enamel finish. Brackets shall accommodate overhead or face mounting with clutch assembly on either side of roller. Outside mount brackets are finished with smooth flat plates. Color of fascia and brackets shall be white, bone, black, grey or bronze. Custom color available for quality orders.

PART III – EXECUTION

3.01 Inspection

- A. Window treatment subcontractor shall be responsible for inspecting site, field measurements, and approving mounting surfaces and installation conditions.
- B. Subcontractor shall verify that site is free of conditions that interfere with shade installation and operation, and shall begin installation only when any unsatisfactory conditions are rectified.

3.02 Installation

- A. Installation shall comply with Elizabeth Shutters specifications, standards, and procedures.
- B. Installer shall use support brackets as per Elizabeth Shutters installation instructions.
- C. Shade shall be installed with adequate clearance, and to permit unencumbered operation of shade and hardware.
- D. Installer shall read installation instructions packaged with the shade for additional details.
- E. Installer shall demonstrate shade to be in uniform and smooth working order.

3.03 Cleaning

- A. Clean finished installation of dirt and finger marks.