



# ROLLER SHADE SPECIFICATIONS

## **MANUAL SHADES**

### **SECTION 12492**

#### **Part 1 – General**

##### 1.1 Scope

- A. Furnish and install Shop Collection roller shades provided by Diamond Drapery Company Inc., Orange County, California
- B. Related work specified elsewhere

##### 1.2 Quality Assurance

- A. Installer qualifications:
  - 1. The installer shall be a firm approved by Diamond Drapery Company, Inc.
  - 2. The installer shall be 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.

##### 1.3 Submittals

- A. Product information: Submit Diamond Drapery product literature and installation instructions.
- B. Shop drawings: Indicate field-measured dimensions of opening which are to receive shades, details on mounting surface and sill conditions, and details of corners and conditions between adjacent shades.
- C. Color samples: Submit a sample of each type and color of material specified.

##### 1.4 Delivery, Storage, and Handling

- A. Packing and shipping:
  - 1. Materials shall be delivered to the Project in Diamond Drapery's original unopened packaging with labels intact.
- B. Storage:
  - 1. Materials shall be stored in a clean area, which is free of corrosive fumes, dust, and away from construction activities.
  - 2. Materials shall be stacked horizontally using plastic or wood shims such that drainage and ventilation are provided for, and such that water cannot accumulate in, about or upon containers.
  - 3. Stacks shall be covered with tarpaulins or plastic such that ventilation is provided for, and such that contaminants are prevented from contacting surfaces.

##### 1.5 Project/Site Conditions (Before Product Installation Begins)

- A. Roof must be tight, windows and frames installed and glazed, and interior doors hung.
- B. Wet work including concrete, masonry, plaster, stucco, terrazzo, sheetrock, spackling, and taping (including sanding) shall be complete and dry.
- C. Ceilings, window pockets, electrical, and mechanical work above the product shall be complete.
- D. Electrical power (110 volt AC) shall be available for installer's tools within 500 ft. of product installation areas.
- E. Flooring materials such as carpet, tile, etc. must be completed.

##### 1.6 Warranty

- A. Lifetime limited warranty: Diamond Drapery Company, Inc. shall repair or replace for the ten year expected life of the roller shade, at its option, without charge, any part found defective in workmanship or material as long as the roller shade remains in the same window for which it was purchased.

#### **Part 2 – Products**

##### 2.1 Manufacturer and Product Description

- A. Acceptable product: Shop Collection chain operated clutch roller shades manufactured by Diamond Drapery Company, Inc.



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#### Part 2 – Products (continued)

##### B. Materials:

1. Fabric: Selected from Diamond Drapery's Roller Shade Shop Collection. Available in a variety of solar screen, light filtering, and room darkening fabrics.
2. Clutch Mechanism: Shall be made in corrosion resistant plastic and internal mechanisms of Nylon 6 construction. Shall consist of a heavy duty single wrap spring that creates a positive mechanical relationship between the roller shade tube unit and the universal installation brackets to ensure stationary positioning in the static state. When activated the wrap spring releases and permits the clutch to turn while reducing friction on the clutch. The clutch will be press fit into the tube with ribs that engage with the tube's internal locking channels. The chain control will be available on either the right or the left side of the shade.
  - a. Clutch End Locking System: The clutch shall have a locking system which prevents the shade from coming out of its brackets if the shade is operated incorrectly.
3. Idle End Cap: Shall be made of nylon with a spring steel loaded center pin for smooth and quiet operation. The idle end spring shall be made of zinc plated spring steel and will be press fit into the tube with ribs that engage with the tube's internal locking channels. The idle end of clutch shall be spring loaded for ease of installation and security of fixing.
4. Lift Chain: #10 stainless steel bead chain
5. Tube Mechanism: All tubes shall be 100% extruded T6 aluminum with a diameter and a wall thickness required to support shade fabric without excessive deflection. Four tube extrusions shall be used depending upon the size of the shade and the weight of the fabric selected. Each tube shall have at least one Secure Grip Spline fabric fixing slot to increase the rigidity of the tube and thus enabling shades to span wider openings without the risk of the tube sagging when the shade is operated.
  - a. 1 1/4" Tube: Shall have an outside diameter of 1 1/4" and shall be extruded with one slot for increased strengthening and fabric attachment using the Secure Grip Spline Method.
  - b. 1 1/2" Tube: Shall have an outside diameter of 1 1/2" and shall be extruded with two slots for increased strengthening and fabric attachment using the Secure Grip Spline Method.
  - c. 1 3/4" Tube: Shall have an outside diameter of 1 3/4" and shall be extruded with three slots for increased strengthening and fabric attachment using the Secure Grip Spline Method.
  - d. 2 1/2" Tube: Shall have an outside diameter of 2 1/2" and shall be extruded with three slots for increased strengthening and fabric attachment using the Secure Grip Spline Method.
6. Spline Mounting System: Shall be a flexible PVC extrusion engineered by Diamond Drapery Company, Inc to be RF welded to the shade fabric. The spline shall be inserted into a slot on the extruded aluminum tube. The Secure Grip Spline shall provide for a positive mechanical attachment of the shade band to the roller tube; shade bands shall be made removable and/or replaceable with the "push-in" and "pull-off" spline system. Spline shall allow fabric to be easily removed and re-installed on the roller shade tube without having to remove the shade's roller tube from its brackets.
  - a. Mounting spline shall not require the use of adhesives, adhesive tapes, staples, and/or rivets.
  - b. Any method of securing the shade cloth to the roller tube that requires the use of adhesives, adhesive tapes, staples, and/or rivets are not acceptable.
7. Hembar: Shall be an aluminum extrusion 1" in height held inside a fabric bottom-pocket. The bottom-pocket shall be created by folding a 1 1/4" section of fabric behind the bottom of the shade and RF welding the fabric to itself. After the aluminum weight is inserted into the bottom-pocket, the edges will be sealed by again RF welding the fabric edges to itself.



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#### *Part 2 – Products (continued)*

8. Installation Brackets without Fascia: Shall be universal. Brackets may be installed top, face, or side fixed and can be used for shades with both left hand and right hand controls. Brackets shall be available in a white or black painted finish.
9. Installation Brackets with Fascia: Shall be universal. Brackets may be installed top, face, or side fixed and can be used for shades with both left hand and right hand controls. Brackets shall be available in a white, black, dark bronze, or gray painted finish.
10. Valance/Fascia Options:
  - a. 3" & 4" Square Fascia Valance: Shall be a "L" shaped aluminum extrusion that covers the front and bottom of the roller. The fascia shall lock into its brackets with snap-in fittings. Available as clear anodized, white, black, and dark bronze.
  - b. 3" & 4" Round Fascia Valance: Shall be a contoured shaped aluminum extrusion that covers the front and bottom of the roller. The fascia shall lock into its brackets with snap-in fittings. Available as clear anodized, white, and black.
  - c. Cassette Shade Box: Shall be a two-piece aluminum extrusion that will encase and conceal the roller shade tube mechanism. It is engineered for both interior and exterior applications and is designed to eliminate top light gap. Aluminum end caps shall be fixed at both ends of the extrusion. Available as clear anodized, white, and black.
  - d. Ceiling "L" Fascia Valance: Shall be an aluminum extrusion that covers the top and front of the roller. Shall also have grooves at the top to accept shade brackets that are factory installed and may have an optional removable bottom closure plate.
  - e. Shade Pocket (Headbox): Shall be a one-piece "U" shaped aluminum extrusion with optional removable bottom closure plate. The shade pocket will encase and conceal the roller shade tube mechanism. It is designed to be installed either in a ceiling pocket, to the ceiling, or to the wall. Aluminum end caps are available and may be fixed at both ends of the extrusion. Available as clear anodized, white, or black.
  - f. Side & Sill Channels: Shall be a one-piece "U" shaped aluminum extrusion that may be installed at each side and/or to the window sill to eliminate left, right, and bottom edge light gaps.

#### 2.2 Fabrication

- A. Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate roller shade dimensions to fit within specified tolerances.
- B. Fabricate roller shades to fill openings from head to sill and jamb to jamb. The minimum clearance shade-to-shade shall be 1/4". Locate blind divisions at mullions.

#### *Part 3 – Execution*

##### 3.1 Inspection

- A. Verify that the work area in which the roller shades will be installed is free of conditions that interfere with roller shade installations and operations. Begin shade installation only when unsatisfactory conditions have been corrected.
  1. General: The shade shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.
  2. Size Limitations:
    - a. Maximum width: To be determined depending upon the size of the shade tube. Multiple band shade panels connected with intermediate brackets are also available.
    - b. Maximum drop: To be determined depending upon the size of the shade tube.



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#### ***Part 3 – Execution (continued)***

##### **3.2 Installation**

- A. Install shades in accordance with Diamond Drapery Company, Inc.'s procedures except as otherwise specified herein.
- B. Install shades with adequate clearance to permit smooth operation of shades and any sash operators. Hold roller shades 1/4" clear from each side of window opening on inside mount unless other clearance is indicated.

##### **3.3 Cleaning**

- A. Clean soiled shades surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners. Do not machine wash. To ensure proper drying, provide adequate ventilation for shades.