



**Division 12
WebbLok Roller Shade**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Sunscreen roller shades.
- B. Room darkening roller shades.

1.2 REFERENCES

- A. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- B. NFPA 70 - National Electrical Code.
- C. NFPA 701 - Fire Tests for Flame-Resistant Textiles and Films.
- D. GREENGUARD - Indoor Air Quality Certified
- E. GREENGUARD Children & Schools - Indoor Air Quality Certified

1.3 SUSTAINABILITY REQUIREMENTS

- A. Locally Sourced: 90% of materials manufactured locally in Southern California Region
- B. Recycled Content:
 - 1. Pre Consumer: Aluminum and cardboard
 - 2. Post Consumer:
 - a. Solar Screen Fabric 100% recyclable
 - b. Aluminum roller tubes and mullions
 - c. Steel roller spring, center spring, fasteners and bracket plates
 - d. Plastic end tips, ABS valance, end caps and track
 - e. Cardboard crates and boxes
- C. Low Emitting Materials
 - a. GREENGUARD - Indoor Air Quality Certified
 - b. GREENGUARD Children & Schools - Indoor Air Quality Certified
- D. Optimized Energy Performance
 - a. Solar screen fabric blocks more than 80% of solar heat and 98% of harmful UV rays, lowering indoor temperatures. When combined with our exclusive Energy Saving Privacy Track, energy consumption can be reduced by at least 25-40%.

1.1 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Styles, material descriptions, dimensions of individual components, profiles, features,

- finishes and operating instructions.
 - 3. Storage and handling requirements and recommendations.
 - 4. Mounting details and installation methods.
- C. Shop Drawings: Plans, elevations, sections, product details, installation details, operational clearances, and relationship to adjacent work.
 - D. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings and include opening sizes and key to typical mounting details.
 - E. Selection Samples: For each finish product specified, one set of shade cloth options and aluminum finish color samples representing manufacturer's full range of available colors and patterns.
 - F. Verification Samples: Shadecloth sample and aluminum finish sample as selected. Mark face of material to indicate interior faces.
 - G. Maintenance Data: Methods for maintaining roller shades, precautions regarding cleaning materials and methods, instructions for operating hardware and controls.

1.2 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Obtain roller shades through one source from a single manufacturer with a minimum of twenty years experience in manufacturing products comparable to those specified in this section.
- B. Installer Qualifications: Installer trained and certified by the manufacturer with a minimum of ten years experience in installing products comparable to those specified in this section.
- C. Fire-Test-Response Characteristics: Passes NFPA 701 small and large-scale vertical burn. Materials tested shall be identical to products proposed for use.
- D. Anti-Microbial Characteristics: 'No Growth' per ASTM G 21 results for fungi ATCC9642, ATCC 9644, ATCC9645.
- E. Indoor Air Quality Components:
 - 1. The GREENGUARD Indoor Air Quality Certification Program gives assurance the products are designed for use in office environments and other indoor spaces meet strict chemical emissions limits, which contribute to the creation of healthier interiors.
 - 2. The GREENGUARD Children & Schools - Indoor Air Quality Certified Products certified to this standard are also suitable for use in environments where children and others work, play or reside.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Deliver shades in factory-labeled packages, marked with manufacturer and product name, fire-test-response characteristics, and location of installation using same room designations indicated on Drawings and in the Window Treatment Schedule.

1.4 PROJECT CONDITIONS

- A. Environmental Limitations: Install roller shades after finish work including painting is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.5 WARRANTY

- A. Roller Shade Hardware: Manufacturer's standard non-depreciating fifteen year limited warranty.

- B. Standard Shadecloth: Manufacturer's standard three year warranty.
- C. Roller Shade Installation: One year from date of substantial completion, not including scaffolding, lifts or other means to reach inaccessible areas.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Webb Design, Inc. DBA WebbShade which is located at: P.O. Box 1405, El Cajon, CA, 92022; Tel: 800-262-9322; info@webbshade.com; www.webbshade.com
- B. Substitutions: Not permitted.

2.2 ROLLER SHADE TYPES

- A. Manually Operated Cordless Shades:
 - 1. Mounting: Surface mounted.
 - 2. Mounting: Surface mounted with fascia.
 - 3. Configuration: Single solar shadecloth.
 - 4. Configuration: Single blackout shadecloth.
 - 5. Configuration: Double solar and blackout shadecloth.
 - 6. Solar Shadecloths:
 - a. Fabric: Alkenz Solar Screen, 1% openness (internal pricing-Level 5)
 - b. Fabric: Vertilux Solar Screen, 1% openness (internal pricing-Level 6)
 - c. Fabric: Custom Printed Solar Screen (internal pricing-Level 8)
 - d. Color: Selected from manufacturer's standard colors.
 - 7. Blackout Shadecloths:
 - a. Fabric: Reinforced Vinyl Scrim (internal pricing-Level 3)
 - b. Fabric: Vertilux Noche Blackout Fabric (internal pricing-Level 5)
 - c. Fabric: Custom Printed Vinyl Scrim (internal pricing-Level 7)
 - d. Color: Selected from manufacturer's standard fabrics.

2.3 SHADE BAND

- A. Shade Bands: Construction of shade band includes the fabric, the hem weight, hem-pocket, shade roller tube, and the attachment of the shade band to the roller tube. Sewn hems are not acceptable, unless requested by Architect/customer.
 - 1. Hem Pockets and Hem Weights: Fabric hem pocket with RF-welded seams and concealed hem weights. Hem weights shall be of appropriate size and weight for shade band. Hem weight shall be continuous inside the hem pocket. Hem pocket construction and hem weights shall be similar, for all shades within one room.
 - 2. Shade Band and Shade Roller Attachment:
 - a. Use extruded aluminum shade roller tube of a diameter and wall thickness required to support shade fabric without excessive deflection. Roller tubes less than 1.55" (39.37 mm) in diameter for manual shades-are not acceptable.
 - b. Provide continuous positive engagement of spring mechanism
 - c. Provide for positive mechanical attachment of shade band to roller tube; shade band shall be made removable / replaceable with 0.625" x 0.3125" extruded ABS guide slats.

2.4 SHADE FABRICATION

- A. Fabricate units to completely fill existing openings from head to sill and jamb-to-jamb, unless specifically indicated otherwise.

- B. Fabricate shadecloth to hang flat without buckling or distortion. Fabricate with trimmed edges to hang straight without curling or raveling.
- C. Fabricate units for manual operation without the use of cords or chains using an internal lift spring completely contained within the shade roller tube.
- D. For railroaded shadebands, provide seams in railroaded multi-width shadebands as required to meet size requirements and in accordance with seam alignment as acceptable to Architect/customer. Seams shall be properly located.

2.5 COMPONENTS

A. Access and Material Requirements:

- 1. Provide shade hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening.
- 2. Use only ABS with UV inhibitors, reinforced vinyl or Styrene based plastics for all plastic components of shade hardware.

B. Manually Operated, Cordless WebbLok Hardware and Shade Brackets

1. Shade Roller:

- a. Tube: Provide extruded aluminum alloy 6061 or 6063, 1.75" diameter with exterior 0.15" x 0.84" slot for attaching shade fabric using 0.625" x .3125" extruded ABS guide slats to provide horizontal adjustment of shade fabric while preventing removal of fabric after installation.
- b. Lift Mechanism: Inner lift spring shall be constructed of blue spring steel of sufficient thickness to provide positive mechanical engagement through entire operation of shade unit. Drive pins shall be heat-treated 1" x .024" steel.

2. Bottom Rail:

- a. Bottom Rail: Provide bottom rail constructed of milled wood board with 0.5" OD aluminum end tubes and notched center tube to contain aluminum rod mechanisms and finger clip releases.
 - i. Finger Clip Release: Provide non-looping, injection molded ABS finger clips. Shall be attached to threaded rod mechanism inside notched center tube.
 - ii. Rod Mechanism: Provide two each per shade unit, 0.25" aluminum rods, custom fit to each shade unit, with removable, adjustable end tips. Shall have one threaded end to attach adjustable end tips.
 - iii. End Tips: Provide injection molded, reinforced nylon end tips press fit into 0.375" x 3.5" aluminum tube. Shall attach to threaded end of rod mechanism to allow for adjustment to exact window size. End tips shall provide lateral resiliency for proper alignment and engagement of track stops. Custom break away upon Architect/customer request.

3. Bracket Plates:

- a. Provide mounting bracket plates constructed of 18 gauge galvanized steel with embossed drive pin slots, and 0.25" x 0.562" nylon bushing inserts pressed into each idler pin aperture. Shall be corrosion resistant and will not buckle, bend or break under the shear forces created by the roller tension, shade material, or normal operation.
 - i. Fabric Valance Bracket Plates: Shall have a 0.5" x 2.75" lip for attaching fabric valance.

- ii. Optional Security Box Bracket Plates: Shall be constructed with 0.75" folded lips for attaching security boxes. Shall receive a baked on coating to match security box color as specified by Architect/customer.

4. Guide Tracks:

- a. Provide extruded aluminum alloy 6063-T5 , 0.5" deep x 0.75" wide, and shall be clear mill track finish or anodized bronze finish. Stops shall be punched from back of track at a downward angle to create level, preset stops in the upward direction and eliminate engagement with nylon guide tips moving in a downward direction. All tracks shall have identical stops for shades to remain level with bottom sill. Track shall be mounted with screw at top, center, and bottom with a 0.25" nylon spacer over top screw to contain guide tips within track.

C. Valance:

- 1. Shall be self-fabric made from the privacy or blackout fabric, attached to standard 0.875" x 1.5" wood headrail, 8" in length with bar-welded (not sewn) hem. Returns, if required, shall have a heat sealed corner and can be attached to headboard. Headboard shall be attached to lip on bracket plate using #8 x 0.5" stainless steel pan head screws.

OR

- 2. Optional Security Box: Provide front security box and back plate constructed of corrosion resistant galvanized steel of sufficient thickness to prevent bending or buckling, with a baked on coating. Shall be custom fit to each window opening with folded lips to eliminate exposed edged. Security box and back shall create a sealed unit to prevent access and removal of shade roller. Security box shall be attached to bracket plates using tamper resistant fasteners.

Security box types:

- a. Standard Security Box – SSB
- b. Standard Security Box Reduced Depth – SSB RD
- c. Angled Security Box – SB5A
- d. Angled Security Box Reduced Depth – SB5A RD (includes wooden 5/8" x 5/8" top lip support for mounting)

- D. Electrical: Electric service for motor controls – Division 16

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect/customer of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install roller shades level, plumb, square, and true according to manufacturer's written instructions, and located so shade band is not closer than 0.75" to interior face of glass. Allow

proper clearances for window operation hardware.

- B. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- C. Clean roller shade surfaces after installation, according to manufacturer's written instructions.
- D. Engage Installer to train Owner's maintenance personnel to adjust, operate and maintain roller shade systems.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION