Division 12-
WebbGlide Roller Shade

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Sunscreen roller shades.

B. Room darkening roller shades.

C. Room darkening and sunscreen double 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%.

1.4 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.

1.5 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 that products 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.

1.6 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.

1.7 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.

1.8 WARRANTY

A. Roller Shade Hardware: Manufacturer's standard non-depreciating twenty-five 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; Email: info@webbshade.com; Web: 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%, 3%, 5%, 10%, 15% openness (internal pricing-Level 5)
   b. Fabric: Vertilux Solar Screen, 1%, 3%, 5%, 10%, 14%, 20% (internal pricing-Level 6)
   c. Fabric: Custom Printed Screen (internal pricing-Level 8)
   d. Color: Selected from manufacturer's standard colors.
7. Blackout Shadecloths:
   a. Fabric: Reinforced Vinyl Scrim (internal pricing-Level 2)
   b. Vertilux/Butler Fabric, Pinpoint-Matte FR, Swirl-Moire FR, Texture-Boucle FR (internal pricing-Level 3)
   c. Fabric: Vertilux Noche Blackout Fabric (internal pricing-Level 5)
   d. Fabric: Custom Printed Vinyl Scrim (internal pricing-Level 7)
   e. 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.

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 for neutral mechanical engagement with drive / brake 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. 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 and without requiring end or center supports to be removed.
2. Use only ABS with UV inhibitors or Styrene based plastics for all plastic components of shade hardware.

B. Manually Operated, Cordless WebbGlide 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 0625” 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 .058” blue spring steel. Drive pins shall be heat-treated 1” x .024” steel.

2. Bottom Rail:

a. Provide Bottom rail of proper size and weight to properly balance lifting mechanism. Bottom rail shall be 0.625” od. steel tube, lightweight and corrosion resistant. It shall be applied to shade inside a bar-welded (radio-wave molecular bond) self-fabric pocket sized so the bottom rail shall slide smoothly and snugly inside. 0.375" od. steel rod shall be inserted into the tube acting as weight. Injection-molded thermoplastic guide tips shall be attached at each end with stainless steel compression springs and aluminum rivets, and shall fit easily in side tracks to provide braking system for shade.

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. Each bracket shall have a 0.5” x 2.75” lip for attaching fabric valance.

4. Privacy Track:

a. Provide vertical guide tracks extruded from thermoplastic resin containing UV inhibitors, 0.5” x 0.875” and shall have a 1” extended lip on the room facing edge to maintain privacy and eliminate light leaks. Tracks shall be attached using double-coated foam adhesive PSA tape.

C. Manually Operated Cordless Dual WebbGlide Shades

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 0625” 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 .058” blue spring steel. Drive pins shall be heat-treated 1” x .024” steel.

2. Bottom Rail:

a. Provide Bottom rail of proper size and weight to properly balance lifting mechanism. Bottom rail shall be 0.625” od. steel tube, lightweight and corrosion resistant. It shall be applied to shade inside a bar-welded (radio-wave molecular bond) self-fabric pocket sized so the bottom rail shall slide smoothly and snugly inside. 0.375" od. steel rod shall be inserted into the tube acting as weight. Injection-molded thermoplastic guide tips shall be attached at each end with stainless steel compression springs and aluminum rivets, and shall fit easily in side tracks to provide braking system for shade.

3. Bracket Plates:

a. Provide mounting bracket plates constructed of 18 gauge galvanized steel with two embossed drive pin slots, and two 0.25” x 0.562” nylon bushing inserts pressed into each idler pin aperture. Drive pin slots and idle pin apertures shall be placed on bracket with proper spacing to allow continuous, independent operation of front and back shades. 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.

4. Shade Material:

a. Front shade (room side) fabric shall be blackout or privacy fabric of type, quality, weight, and color as specified by Architect. Rear shade (window side) fabric shall be a light filtering fabric of color and openness as specified by Architect.

5. Provide hardware capable for installation of a removable fascia, for both regular and/or reverse roll, which shall be installed without exposed fastening devices of any kind.

2.6 ACCESSORIES

A. Valance:

1. Shall be Continuous removable extruded ABS fascia that attaches to 3.675” x 3.675” molded ABS caps placed over 18 gauge galvanized steel mounting plates without the use of adhesives, magnetic strips, or exposed fasteners for single shades only.

OR

2. 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 with staples. Headboard shall be attached to lip on bracket plate using #8 x 0.5” stainless steel pan head screws for both single and dual shades.

OR

3. Shall be extruded aluminum fascia in 3” or 4” profile. Fascia shall fully conceal brackets, shade roller and fabric on the tube.

B. 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 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