PART 1 - GENERAL

1.01 DESCRIPTION
   A. Manual Cordless Solar Shades with FR Fabric

1.02 SUBMITTALS
   A. Manufacturer’s complete CSI 3-part specification sheet.
   B. Submit working hand sample or mock up shade as required.
   C. Submit two 4” x 6” samples of shade fabric material indicating color and dimensions.

1.03 DELIVERY, STORAGE AND HANDLING
   A. Product to be delivered in manufacturer’s original packaging.
   B. Products to be handled and stored to prevent damage to materials, finishes and operating mechanisms. Store in a clean, dry area, laid flat to prevent sagging and twisting of packaging.

1.04 EXTRA STOCK
   A. Describe extra attic stock as required:

PART II - PRODUCTS

2.01 Manufacturer and Product Description
   A. Springs Window Fashions LLC or architect approved equal.
   B. Substitution Request: Submit for approval under provisions of section

2.02 Manual Cordless Solar Shades
   A. Product: Graber® LightWeaves® Cordless Shades with FR Fabric
      1. **Roller tube** shall be extruded aluminum engineered with a channel to accept fabric spline. The tube size will be determined by the manufacturer based on window size and fabric selection.
      2. **Cordless mechanism** is enclosed inside the tube raising and lowering the shade smoothly due to a unique dual speed braking system. Tension can be manually adjusted so shade always raises at the desired speed.
      3. **Cassette valance** shall be an aluminum extrusion with a curved front profile and covered with fabric to match the shade. Manufacturer will determine the cassette size based on the window size and fabric selection.
4. **Fabric Wrapped Hem bar** shall be an elliptical shaped aluminum extrusion painted to color coordinate with the fabric and finished with color coordinated plastic end caps. The fabric wraps around the front side of the extrusion and is visible on the room side. The color coordinated aluminum hem bar is visible on the window side. Hem bar shall include a clear plastic hem grip to protect the fabric and facilitate raising and lowering the shade.

5. **Installation brackets** shall be steel and can accommodate top or back mounting. Optional projection brackets are available in 3.25” and 4”.

6. **Fabric Band Materials** – Fabric Band Material Flame Resistance Rating: Comply with [NFPA 701]. Testing to be conducted by a qualified independent testing agency. Identify products with appropriate marking of applicable testing agency.

   A. Fabric Band Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   
      1. Source: Springs Window Fashions.
      2. Type: Woven polyester and PVC-coated polyester.
      4. Roll Width: 98 inches (2489 mm).
      5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
      6. Openness Factor: [T100 - 1 percent] [T300 - 3 percent] [T500 - 5 percent].
      7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

   C. SWFcontract Latitude X100 Light-Filtering Fabric: Woven fabric, stain and fade resistant.
      1. Source: Springs Window Fashions.
      2. Type: PVC-coated polyester, polyester.
      3. Weave: 1x1 Vertical Plain Weave.
      4. Roll Width: 118 inches (2997 mm).
      5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
      6. Openness Factor: 1 percent.
      7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

      1. Source: Springs Window Fashions.
      2. Type: Woven polyester and PVC-coated polyester.
      3. Weave: 2x2 Thin Basketweave.
      4. Roll Width: 98 inches (2489 mm).
      5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
      6. Openness Factor: [A1000 – 1 percent] [A300 - 3 percent] [A500 - 5 percent].
      7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

      1. Source: Springs Window Fashions.
2. Type: PVC-coated polyester, polyester.
3. Weave: 2x2 Thin Basketweave.
4. Roll Width: 118 inches (2997 mm).
5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: [R100 – 1 percent] [R300 – 3 percent] [R500 – 5 percent].
7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

   1. Source: Springs Window Fashions.
   2. Type: PVC-coated polyester, polyester.
   3. Weave: 2x2 Thin Basketweave.
   4. Roll Width: 118 inches (2997 mm).
   5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
   6. Openness Factor: [S100 – 1 percent] [S300 – 3 percent] [S500 – 5 percent] [S1000 – 10 percent].
   7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

   1. Source: Springs Window Fashions.
   2. Type: PVC-coated polyester, polyester.
   3. Weave: 2x2 Thick Basketweave.
   4. Roll Width: 118 inches (2997 mm).
   5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
   6. Openness Factor: [U100 – 1 percent] [U300 – 3 percent] [U500 – 5 percent].
   7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

   1. Source: Springs Window Fashions.
   2. Type: PVC-coated polyester, polyester.
   3. Weave: Jacquard
   4. Roll Width: 98 inches (2489 mm).
   5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
   6. Openness Factor: 4 percent.
   7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

   1. Source: Springs Window Fashions.
   2. Type: PVC-coated polyester, polyester.
   3. Weave: Jacquard
   4. Roll Width: 98 inches (2489 mm).
   5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
   6. Openness Factor: 1 percent.
   7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

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1. Source: Springs Window Fashions.
2. Type: PVC-coated polyester, polyester.
3. Weave: Jacquard
4. Roll Width: 98 inches (2489 mm).
5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 4 percent.
7. Color: [As indicated on Drawings] [Match Architect’s sample] [As selected by Architect from manufacturer’s full range] <Insert color>.

1. Source: Springs Window Fashions
2. Type: 100% Polyester.
3. Weave: Jacquard
4. Roll Width: 98 inches (2489 mm).
5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 14 percent.
7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

1. Source: Springs Window Fashions.
2. Type: 100% Polyester.
4. Roll Width: 94.5 inches (2400 mm).
5. Orientation of Fabric Band: [Vertical] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 14 percent.
7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

1. Source: Springs Window Fashions.
2. Type: Blackout, PVC-coated fiberglass with bonded PVC film.
3. Roll Width: 72 inches (1829 mm).
4. Orientation on Fiber Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.

1. Source: Springs Window Fashions.
2. Type: Blackout, Polyester, PVC free.
3. Roll Width: 122 inches (3099 mm).
4. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer’s full range] <Insert color>.
Color: [As indicated on Drawings] [Match Architect’s sample] [As selected by Architect from manufacturer’s full range] <Insert color>.

2.03 FABRICATION

A. Shades shall be fabricated according to specifications and accurate to tolerance established by SWF engineering standards.

B. Fabricate shades to hang flat without buckling or distortion.

PART 3 – EXECUTION

3.01 INSPECTION

A. Installer shall be responsible for inspection of jobsite, approval of mounting surfaces, blocking for shade brackets or pocket assemblies, suspended acoustical or gypsum ceiling for recessed shades, verification of field measurements and installation conditions. Installation shall commence when satisfactory conditions are met.

3.02 INSTALLATION

A. Install shades in accordance with manufacturer’s instructions including recommended support brackets and a minimum of two fasteners per bracket.

B. Install shades with adequate clearance to permit smooth operation of the shades throughout entire operational range. Installer will demonstrate shades to be in smooth, uniform working order.

C. Architectural and electrical drawings may or may not indicate the motor or motor controller wiring. All motors and controllers must be wired according to specifications and wiring diagrams prior to installation of motorized shades, as provided by installer/dealer, according to manufacturer’s product requirements.

3.03 MAINTENANCE AND CLEANING

A. Shades may be vacuumed with a soft brush attachment or cleaned with mild soap and water solution. Do not use cleaning methods involving heat, bleach, abrasives, or solvents. Use of these methods will void the warranty.

END OF SECTION