SECTION 12 20 00

WINDOW TREATMENTS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* SWFcontract; manual solar shades, motorized solar shades, horizontal blinds, wood blinds, vertical blinds, cellular shades, pleated shades, drapery hardware.  
.  
This section is based on the products of SWFcontract, which is located at:  
7549 Graber Rd.  
Middleton, WI 53562-1096   
Toll Free: 800-327-9798   
Email: [architectsolutions@swfcontract.com](mailto:architectsolutions@swfcontract.com).  
 Website: [www.swfcontract.com](http://www.swfcontract.com)   
  
SWFcontract commercial window treatments provide the architectural and contract communities with innovative, quality products that set the industry standard for commercial environments.  
Green By Nature: At SWFcontract, our goal is to minimize the overall environmental impact of our company and products by choosing recycled, renewable and reduced-content materials over virgin sources, thereby reducing energy usage and waste while improving air and water efficiency and indoor air quality. These efforts go well beyond individual products and extend into our processes and the actions of our people. At SWF, being "green" is deeply imbedded in the nature of our company and our products. This commitment to respecting the earth is a long-term component of our philosophy and guides us as we conduct business. SWF vows that our eco-friendly claims will always be supported by solid statistics. For detailed information go to swfcontract.com and click on "Green by Nature"  
  
See our SpecWizard: [Click Here](http://www.arcat.com/specwizard/12490swf/index.htm)

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Interior Solar Shading Systems:
       1. Manual solar shades. (SWFcontract)
       2. Manual shade system. (Pro Series)
       3. Motorized solar shades. (SWFcontract)
    2. Interior Window Coverings:
       1. Aluminum horizontal mini blinds. (Bali S3000 1 inch)
       2. Aluminum horizontal mini blinds. (Bali Classics 1 inch)
       3. Aluminum horizontal mini blinds. (Bali CustoMiser 1 inch)
       4. Aluminum horizontal mini blinds. (Bali Apartment)
       5. Aluminum horizontal micro blinds. (Bali S4000)
       6. Aluminum horizontal micro blinds. (Bali)
       7. Aluminum horizontal blinds. (Bali Heritage 2 inch)
       8. Aluminum horizontal school blinds. (Bali 2 inch School)
       9. Designer vinyl blinds. (Graber 2 inch)
       10. Wood horizontal blinds. (Graber Elite Woods 2 inch)
       11. Wood horizontal blinds. (Graber Traditions 1 inch)
       12. Wood horizontal blinds. (Graber Traditions 2 inch)
       13. Faux wood blinds. (Graber Lake Forest)
       14. Vertical blinds. (SWFcontract G-98 Ultra-Vue Vertical Blinds)
       15. Vertical blinds. (SWFcontract G-71 Super-Vue Vertical Blinds)
       16. Vertical blinds. (SWFcontract G-85 Dura-Vue Vertical Blinds)
       17. Cellular shades. (SWFcontract CrystalPleat 3/8 inch Double Cell)
       18. Cellular shades. (SWFcontract CrystalPleat 3/8 inch Single Cell)
       19. Cellular shades. (SWFcontract CrystalPleat 3/4 inch Single Cell)
       20. Pleated shades. (SWFcontract EvenPleat)
       21. Pleated shades. (SWFcontract FashionPleat)
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
    2. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies.
    3. Section 09 51 23 - Acoustical Tile Ceilings.
    4. Section 09 90 00 - Painting and Coating.
    5. Division 16 - Electrical.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM E 21 - Standard Test Method for Elevated Temperature Tension Tests of Metallic Materials.
       2. ASTM E 22 - Recommended Practice for Conducting Long Time High Temperature Tension Test of Metallic Materials.
       3. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
       4. ASTM G 22 - Standard Practice for Determining Resistance of Plastics to Bacteria.
    2. National Fire Protection Association (NFPA):
       1. NFPA 70 - National Electrical Code.
       2. NFPA 701 - Fire Tests for Flame-Resistant Textiles and Films.
    3. Underwriters Laboratories Inc. (UL).
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Submit manufacturer's product data sheets, including installation details, styles, material descriptions, profiles, features, finishes and operating instructions.
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Mounting details and Installation methods.
        4. Typical wiring diagrams if applicable.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, product details and finishes, installation details, operational clearances, wiring diagrams if applicable, and relationship to adjacent work.
    2. Window Treatment Schedule: Submit a schedule with same room designations indicated on the Drawings; including but not limited to opening sizes and key to typical mounting details.
    3. Maintenance Data: Submit instructions and precautions for cleaning and maintenance, operating hardware and controls as applicable.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if selections have already been made.

* + 1. Selection Samples:

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Frame and Component Finishes: Submit 2 sets of samples, representing manufacturer's standard range of finishes specified for aluminum.
      2. Fabric: Submit 2 sets of samples, representing manufacturer's standard range of options for shade cloth.
      3. Aluminum Slats: Submit 2 sets of samples, 6 inches long, representing manufacturer's standard range of finishes specified for aluminum slats.
    1. Verification Samples:

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Frame and Component Finishes: Submit 2 samples, representing actual finishes specified for aluminum.
      2. Fabric: Submit 2 samples, representing actual products specified for shade cloth.
      3. Aluminum Slats: Submit 2 sets of samples, 6 inches long, representing actual finishes specified for aluminum slats.
  1. QUALITY ASSURANCE
     1. Manufacturer's Qualifications: Engaged in manufacturing of products of similar type to that specified, with a minimum of 10 years successful experience.
     2. Installer Qualifications: Minimum 2 years successful experience installing similar products.
     3. Single Source Requirements: To the greatest extent possible, provide products specified in this section from a single manufacturer.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Delivery: Deliver materials to site protected from damage.
     2. Storage: Store materials in clean, dry area indoors in manufacturer's unopened packaging until ready for installation and in accordance with manufacturer's instructions. Store in a clean, dry area, laid flat to prevent sagging and twisting of packaging.
     3. Handling: Protect materials and finish from damage during handling and installation.
  3. PROJECT CONDITIONS, COORDINATION AND SEQUENCING
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
        1. Building shall be enclosed; windows, frames and sills shall be installed and glazed.
        2. Wet work shall be complete and dry.
        3. Ceilings, window pockets, electrical and mechanical work above window covering shall be complete.
     2. Conference: Convene a pre-installation conference to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.
  4. TYPE OF WARRANTY

\*\* NOTE TO SPECIFIER \*\* Delete warranties not required.

* + 1. Manufacturer's Warranty:
       1. Provide Limited lifetime warranty on all Bali®, Graber® and SWFcontract™ products sold by SWF or by an authorized dealer, other than the products listed below, which have the limited warranty periods as indicated:
       2. 2" vinyl and acrylic slats: Three years
       3. Drapery hardware: Three years
       4. FashionPleat pleated shade fabrics: Three years
       5. Vertical louvers (vanes): Three years
       6. Motorization components & accessories (batteries not included): Five years

\*\* NOTE TO SPECIFIER \*\* Revise number below, or delete if not required.

* 1. EXTRA MATERIALS
     1. Attic Stock: Provide two extra blinds of primary size used for Owner's replacement stock.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: SWFcontract, which is located at: 7549 Graber Rd.; Middleton, WI 53562-1096 ; Toll Free Tel: 800-327-9798; Email: [request info (architectsolutions@swfcontract.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=SWFcontract&coid=46294&rep=&fax=&message=RE:%20Spec%20Question%20(12490swf):%20%20&mf=); Web: <https://www.swfcontract.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. SHADING SYSTEMS - GENERAL

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Shade Configuration: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Shade Configuration: Single shades as scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Shade Configuration: Dual shades as scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Shade Configuration: Coupled shades as scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. MANUALLY OPERATED SOLAR SHADING SYSTEMS
     1. Shading Systems: SWFcontract Manual Solar Shades as manufactured by SWFcontract.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + 1. Fabric: Flame retardant, fade and stain resistant, anti-microbial.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
      2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
      3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
      4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
      5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.
    1. Components: Fabricate such that shade hangs flat without buckling or distortion.
       1. TruePerformance Clutch Systems:
          1. Clutch System: TruePerformance Clutch System from SWFcontract consisting of fiberglass filled nylon for wear resistance, smooth operation and corrosion resistance. The clutch is comprised Velvetrol internal spring arrangement for a smooth pulling force that locks the shade in any position when operating the control loop. The clutch mechanism is bi-directional and does not require adjustment or lubrication. Clutch to be factory installed in roller tube at manufacturing. Clutch size to be selected by manufacturer based on fabric selection and shade size.
       2. Control Loops: Bead stops attached to the chain protect shade from over rotation.

\*\* NOTE TO SPECIFIER \*\* Delete materials not required.

* + - * 1. Materials: Standard, No. 10 stainless steel bead chain.

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with one of five standard colors or delete line as applicable. Contact manufacturer for detail.

* + - * 1. Materials: Provide optional plastic bead chain, color \_\_\_\_\_\_\_\_\_\_\_\_.
      1. Roller Tubes: Extruded-aluminum tubes engineered with a chamfered channel to accept fabric spline and allow fabric to lay across the tube without adding crease lines. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
      2. Idler Ends: high strength, fiberglass-filled nylon with spring-loaded pin-end technology
      3. Lift Assist Systems: Heavy-duty torsion spring located inside the roller tube. The mechanism reduces the pull force allowing easy lifting of larger shades.
      4. Spline Systems: Consist of PVC spline heat-welded to the shade fabric and inserted into a channel on the roller tube. Tape and other methods of attachment are not acceptable.

\*\* NOTE TO SPECIFIER \*\* Delete hem bar not required.

* + - 1. Hem Bars: Standard, aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends, to coordinate with shade cloth selection.
      2. Hem Bars: Provide optional fabric wrapped hem bar, to coordinate with shade cloth selection.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + 1. Accessories:

\*\* NOTE TO SPECIFIER \*\* Shade pockets may be selected (below) in lieu of fascia panels. Delete fascia panels if not required.

* + - 1. Fascia Panels: None.
      2. Fascia Panels: Standard 3 inches (76 mm).
      3. Fascia Panels: Standard 4 inches (102 mm).
      4. Fascia Panels: Back.
      5. Fascia Panels: Dual shade snap-on design.
         1. Materials: 1/16 inches (1.6 mm) thick extruded 6063 T-5 aluminum alloy.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: White.
        2. Finish: Vanilla.
        3. Finish: Clear Anodized.
        4. Finish: Bronze.
        5. Finish: Black.

\*\* NOTE TO SPECIFIER \*\* Delete size not required.

* + - * 1. Size: 3 inches (76 mm).
        2. Size: 4 inches (102 mm).
        3. Size: 7-5/8 inches (194 mm).

\*\* NOTE TO SPECIFIER \*\* Fascia panels may be selected in lieu of shade pockets. Delete if not required.

* + - 1. Shade Pockets: Manufacturer shall provide appropriate dimensional pocket as necessary to enclose roller tube and fabric.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Type: 4-3/4 inches (121 mm) x 5 inch (127 mm) extruded aluminum 6065 alloy.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required .

* + - * 1. Finish: White.
        2. Finish: Clear Anodized.
        3. Finish: Bronze Anodized.
        4. Type: 7-1/2 inches (191 mm) x 8 inches (203 mm) white powder coated steel.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Closure Plates: Exposed, flush mounted, powder-coated extruded 6065-aluminum alloy designed to provide access to shades when recessed in ceiling.

\*\* NOTE TO SPECIFIER \*\* Delete options for closure mounts not required.

* + - * 1. Closure Mounts: With a lip.
        2. Closure Mounts: Without a lip.

\*\* NOTE TO SPECIFIER \*\* Delete plate size not required.

* + - * 1. Plate Size: 2 inches (51 mm).
        2. Plate Size: 3 inches (76 mm).
        3. Plate Size: 5 inches (127 mm).

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: White.
        2. Finish: Clear Anodized.
        3. Finish: Bronze Anodized.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Side, Sill, Center Channels: 2-piece design.
         1. Materials: Extruded 6065-aluminum.
         2. Size: 2 inch (51 mm) x 1 inch (25 mm), and 4 inch (102 mm) x 1 inch (25 mm) center channel is provided for coupled shades.
         3. Finish: To Match Fascia Finish.
  1. MANUAL SHADE SYSTEM
     1. Shading Systems: Pro Series Manual Solar Shades as manufactured by SWFcontract.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + 1. Fabric: Flame retardant, fade and stain resistant, anti-microbial.
       1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
       2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
       3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
       4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
       5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.
    2. Components: Fabricate such that shade hangs flat without buckling or distortion.
       1. Features:
          1. Smooth, quiet and consistent operation.
          2. Built for commercial applications.
          3. Works with large and coupled shades without motorization.
          4. Overrunning-clutch-drive system.
       2. Components:

\*\* NOTE TO SPECIFIER \*\* The Acetal plastic provides excellent strength, smoothness of operation and wear resistance.

* + - * 1. Pro Series Clutch System: High performance Acetal plastic components mounted on a heavy duty 1/8 inch (3 mm) thick steel stamping.

Universal Clutch Mechanism:

Shared between the drive end brackets of system comprises an internal heavy duty wrap spring and an actuator for a smooth pulling force that locks shade in any position when operating control loop.

Bidirectional and does not require adjustment or lubrication.

* + - * 1. Idle End Bracket: High-performance Acetal plastic components mounted on a heavy duty 1/8 inch (3 mm) thick steel stamping.

Intermediate Brackets: High-performance Acetal plastic components mounted on a heavy duty 1/8 inch (3 mm) thick steel stamping providing support to coupled bands connected with an intermediate bracket mechanism.

The intermediate bracket mechanism for certain tube sizes shall have adjustability for shade bands alignment.

* + - * 1. Roller Tube: Extruded tempered aluminum alloy. Removable/replaceable "snap-on, snap-off" spline mounting.

Diameter and Wall Thickness: Determined by manufacturer, based on fabric selection and shade size providing minimal deflection and optimal performance.

* + - * 1. Drive Chain: Special stainless steel bead chain. Bead stops attached to chain to protect shade from over-rotation.
        2. Lift Assist System: Heavy-duty torsion spring located inside roller tube. Mechanism reduces pull force, allowing easy lifting of larger shades.
        3. Removable Spline System: Co-extruded PVC spline, heat-sealed to shade fabric and inserted into an engineered "snap-on, snap-off" spline mounting.

Allows for adjustability on-site and ease in changing fabric bands in field.

* + - * 1. Hem Bar: Extruded aluminum. Sufficient weight for proper shade operation.

\*\* NOTE TO SPECIFIER \*\* Delete hembar type option not required. Exposed or enclosed.

Exposed: Finish: As determined by Architect from manufacturer's range.

Enclosed: In heat sealed pocket of fabric band material.

* + - 1. Options:

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Dual Shades: Hold two shades in one bracket assembly.
        2. Coupled shades.
        3. Bracket end covers to match appropriate fascia In size and color.
        4. Side channels.
        5. Sill channels.
        6. Center channels.
        7. Pockets: 4-3/4 inch (121 mm).
        8. Pockets: 7-1/2 inch (191 mm).
        9. Closure plate: 2 inch (51 mm).
        10. Closure plate: 3 inch (76 mm).
        11. Closure plate: 5 inch (127m).
        12. Fascia: Square.
        13. Fascia: Square extended.
        14. Fascia: Square dual.
        15. Fascia: Back.
        16. Fascia: Reverse roll.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. MOTORIZED SOLAR SHADING SYSTEMS
     1. Shading Systems: Motorized Solar Shades as manufactured by SWFcontract.

\*\* NOTE TO SPECIFIER \*\* Delete configurations not required.

* + - 1. Configuration: As scheduled or indicated by Drawings.
      2. Configuration: Individual shades.
      3. Configuration: Dual shades.
      4. Configuration: Group shades, as indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + 1. Fabric: Flame retardant, fade and stain resistant, anti-static, anti-microbial.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
      2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
      3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
      4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
      5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.
    1. Components: Fabricate such that shade hangs flat without buckling or distortion.
       1. Motors: Enclosed tubular motors, quick-disconnect plugs standard.
          1. Description: Asynchronous, maintenance free with built in reversible capacitor and line voltage power supply.
          2. Compliance: Temperature Class A, thermally protected.

\*\* NOTE TO SPECIFIER \*\* Delete option for motor type not required.

* + - * 1. Motor Type: Low volt wired.
        2. Motor Type: Low voltage wireless.
        3. Motor Type: Line voltage wired.
        4. Motor Type: Line voltage wireless.
        5. Motor Type: Line voltage intelligent.
        6. Motors: Concealed inside roller tubes.
        7. Motor Size: To be determined by shade manufacturer to insure proper operation based on window size and fabric selection and not to exceed 80 percent of the motor and tube assembly rated lift capacity.
        8. Speed: Shades same room must have motors rated at same nominal speed.

\*\* NOTE TO SPECIFIER \*\* Delete power supply type not required.

* + - * 1. Power Supply Type: Low voltage wall plug.
        2. Power Supply Type: Standard wall plug, 110V-120 VAC.
        3. Power Supply Type: Standard hardwired, 110V-120 VAC.

\*\* NOTE TO SPECIFIER \*\* Delete controls not required.

* + - 1. Controls: Provide group controls.
      2. Controls: Provide individual controls.
      3. Controls: Automated Shading System:
         1. Option: Sunlight sensors.
         2. Option: Timer
      4. Building Automation: Provide interface with building automation.
      5. Roller Tubes: Extruded-aluminum tubes engineered with a chamfered channel to accept fabric spline and allow fabric to lay across the tube without adding crease lines. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
      6. Idle End Brackets: Galvanized steel, adjustable, allow shades to be leveled in place.
      7. Spline Systems: Consist of PVC spline heat-welded to the shade fabric and inserted into a channel on the roller tube. Spline system allows for on-site adjustments and facilitates changing fabric panels in the field. Tape and other methods of attachment are not acceptable.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two subparagraphs for hem bar type not required.

* + - 1. Hem Bars: Standard, aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends, to match shade cloth selection.
      2. Hem Bars: Provide optional fabric wrapped hem bar, to match shade cloth selection.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + 1. Accessories:

\*\* NOTE TO SPECIFIER \*\* Shade pockets may be selected (below) in lieu of fascia panels. Delete fascia panels if not required.

* + - 1. Fascia Panels: None.
      2. Fascia Panels: Standard 4.25 inches (108 mm).
      3. Fascia Panels: Standard 7.5 inches (190.5 mm).
      4. Fascia Panels: Back.
      5. Fascia Panels: Dual shade snap-on design.
         1. Materials: 1/16 inches (1.6 mm) thick extruded 6063 T-5 aluminum alloy with powder coated finish.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: White.
        2. Finish: Vanilla.
        3. Finish: Clear Anodized.
        4. Finish: Bronze.
        5. Finish: Black.

\*\* NOTE TO SPECIFIER \*\* Delete size not required.

* + - * 1. Size: 3 inches (76 mm).
        2. Size: 4 inches (102 mm).
        3. Size: 7-5/8 inches (194 mm).

\*\* NOTE TO SPECIFIER \*\* Fascia panels may be selected in lieu of shade pockets. Delete if not required.

* + - 1. Shade Pockets: Manufacturer shall provide appropriate dimensional pocket as necessary to enclose roller tube and fabric.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Type: 4-3/4 inches (121 mm) x 5 inch (127 mm) extruded aluminum 6065 alloy.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required .

* + - * 1. Finish: White.
        2. Finish: Clear Anodized.
        3. Finish: Bronze Anodized.
        4. Type: 7-1/2 inches (191 mm) x 8 inches (203 mm) white powder coated steel.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Closure Plates: Exposed, flush mounted, powder-coated extruded 6065-aluminum alloy designed to provide access to shades when recessed in ceiling.

\*\* NOTE TO SPECIFIER \*\* Delete options for closure mounts not required.

* + - * 1. Closure Mounts: With a lip.
        2. Closure Mounts: Without a lip.

\*\* NOTE TO SPECIFIER \*\* Delete plate size not required.

* + - * 1. Plate Size: 2 inches (51 mm).
        2. Plate Size: 3 inches (76 mm).
        3. Plate Size: 5 inches (127 mm).

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: White.
        2. Finish: Clear Anodized.
        3. Finish: Bronze.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Side, Sill, Center Channels: 2-piece design.
         1. Materials: Extruded 6065-aluminum.
         2. Size: 2 inch (51 mm) x 1 inch (25 mm), and 4 inch (102 mm) x 1 inch (25 mm) center channel is provided for coupled shades.
         3. Finish: To Match Fascia Finish

\*\* NOTE TO SPECIFIER \*\* Delete options below if not required.

* + - 1. Blackout Shades: Provide synthetic pile inserts to eliminate light leakage.

\*\* NOTE TO SPECIFIER \*\* Only applies to solar shading systems. Delete if not required.

* 1. SOLAR SHADE FABRICS
     1. Fabrics: Flame retardant, fade and stain resistant, anti-static, anti-microbial.
        1. Compliance: Pass NFPA 701 FR and ASTM G 21 and ASTM G 22.
        2. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable.

* + - 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
      2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
      3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
      4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
      5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete collections not required.

* + - 1. Collection: As scheduled and indicated on Drawings.
      2. Collection: Double-Take T100 (1 percent).
      3. Collection: Double-Take T300 (3 percent).
      4. Collection: Double-Take T500 (5 percent).
      5. Collection: Crosshatch S Series S100 (1 percent).
      6. Collection: Crosshatch S Series S300 (3 percent).
      7. Collection: Crosshatch S Series S500 (5 percent).
      8. Collection: Crosshatch S Series S1000 (10 percent).
      9. Collection: Crosshatch A Series A100 (1 percent).
      10. Collection: Crosshatch A Series A300 (3 percent).
      11. Collection: Crosshatch A Series A500 (5 percent).
      12. Collection: Crosshatch R Series R100 (1 percent).
      13. Collection: Crosshatch R Series R300 (3 percent).
      14. Collection: Crosshatch R Series R500 (5 percent)
      15. Collection: Latitude X100 (1 percent).
      16. Collection: Factor M1400 (14 percent).
      17. Collection: Aspect (4 percent).
      18. Collection: Zenith (4 percent).
      19. Collection: Vision (7 percent).
      20. Collection: Sheer Lines Light-Filtering Fabric (14 percent).
      21. Collection: Compass Reversible Twill Light-Filtering Fabric Series C100 (1 Percent).
      22. Collection: Compass Reversible Twill Light-Filtering Fabric Series C300 (3 Percent).
      23. Collection: Compass Reversible Twill Light-Filtering Fabric Series C500 (5 Percent).
      24. Collection: Summit U Series U100 (1 percent).
      25. Collection: Summit U Series U300 (3 percent).
      26. Collection: Summit U Series U500 (5 percent).
      27. Collection: Eternity PVC Free E Series E100 (1 Percent).
      28. Collection: Eternity PVC Free E Series E300 (3 Percent).
      29. Collection: Conceal Blackout Fabric, Light-Blocking Fabric (0 percent).
      30. Collection: Parallel Blackout Fabric, Light-Blocking Fabric (0 percent).
      31. Collection: Enterprise Blackout (0 percent).
      32. Collection: Nightfall Blackout (0 percent).

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. HORIZONTAL BLINDS
     1. Window Coverings: Bali S3000 1 inch Aluminum Horizontal Mini Blinds as manufactured by SWFcontract.
        1. Slats:
           1. Materials: 5000 series cold-rolled aluminum.
           2. Nominal Width: 1 inch (25 mm).
           3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
           4. UL Greenguard Gold certified.

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - * 1. Type: Solid .006 inch (0.15 mm) thick (standard).
        2. Type: Solid .008 inch (0.20 mm) thick.
        3. Type: Perforated, 8 percent openness.
        4. Type: Inverted
        5. Type: Privacy, (No Cord Route Holes).

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support.

\*\* NOTE TO SPECIFIER \*\* For maximum privacy select privacy slats and 18 mm spacing. Privacy slats available with 18 mm ladder spacing only. Delete options for ladder spacing not required.

* + - * 1. Ladder Spacing: 18 mm (11.86 slats per foot).
        2. Ladder Spacing: 21.5 mm (14.17 slats per foot), standard.
        3. Ladder Spacing: 20 mm (15.24 slats per foot).
        4. Ladder Spacing: 22.5 mm (13.54 slats per foot).
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1-1/2 inches (38 mm) wide x .025 inch (0.64 mm) thick.

Description: Steel valance-free design with curved front profile, rolled edges at the top and a light blocking lip at the lower back side.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Tilt Limiter: Limits slat operation between a select range of operation.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with 0, 15, 30, 45, 60 or 75 to designate degree of tilt.

Degrees Up: \_\_\_.

Degrees Down: \_\_\_.

* + - * 1. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        2. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        3. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.

\*\* NOTE TO SPECIFIER \*\* Delete brackets not required.

* + - * 1. Brackets: Concealed, top loading, zinc plated steel with snap-in design.
        2. Brackets: Box brackets.
        3. Brackets: Extension brackets.
        4. Brackets: Hold down brackets.
        5. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

* + 1. Window Coverings: Bali Classics 1 inch Aluminum Horizontal Mini Blinds as manufactured by SWFcontract.
       1. Slats:
          1. Materials: 5000 series cold-rolled aluminum.
          2. Nominal Width: 1 inch (25 mm).
          3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
          4. UL Greenguard Gold certified

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Type: Solid .006 inch (0.15 mm) thick (standard).
        2. Type: Solid .008 inch (0.20 mm) thick.
        3. Type: Perforated, 8 percent openness.
        4. Type: Inverted.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support.

\*\* NOTE TO SPECIFIER \*\* Delete options for ladder spacing not required.

* + - * 1. Ladder Spacing: 21.5 mm (14.17 slats per foot), standard.
        2. Ladder Spacing: 20 mm (15.24 slats per foot).
        3. Ladder Spacing: 22.5 mm (13.54 slats per foot).
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1-1/2 inches (38 mm) wide x .025 inch (0.64 mm) thick.

Description: U-shaped steel.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Tilt Limiter: Limits slat operation between a select range of operation.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with 0, 20, 40, 60 or 75 to designate degree of tilt.

Degrees Up: \_\_\_.

Degrees Down: \_\_\_.

* + - * 1. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        2. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        3. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.

\*\* NOTE TO SPECIFIER \*\* Delete brackets not required.

* + - * 1. Brackets: Standard, box style.
        2. Brackets: Extension brackets.
        3. Brackets: Hold down brackets.
        4. Brackets: 2 piece pocket bracket.

\*\* NOTE TO SPECIFIER \*\* Delete valance not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe 2-Slat.
        3. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

Turn Clips: For extruded pocket.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Accent Channels: Provide side channels.
    1. Window Coverings: Bali CustoMiser 1 inch Aluminum Horizontal Mini Blinds as manufactured by SWFcontract.
       1. Slats:
          1. Materials: 5000 series cold-rolled aluminum.
          2. Nominal Width: 1 inch (25 mm).
          3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
          4. UL Greenguard Gold certified

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Type: Solid .006 inch (0.15 mm) thick (standard).
        2. Type: Solid .008 inch (0.20 mm) thick.
        3. Type: Perforated, 8 percent openness.
        4. Type: Inverted.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support.

\*\* NOTE TO SPECIFIER \*\* Delete options for ladder spacing not required.

* + - * 1. Ladder Spacing: 21.5 mm (14.17 slats per foot), standard.
        2. Ladder Spacing: 20 mm (15.24 slats per foot).
        3. Ladder Spacing: 22.5 mm (13.54 slats per foot).
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1 inches (25 mm) wide x .025 inch (0.64 mm) thick.

Description: U-shaped steel.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Tilt Limiter: Limits slat operation between a select range of operation.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with 0, 15, 30, 45, 60 or 75 to designate degree of tilt.

Degrees Up: \_\_\_.

Degrees Down: \_\_\_.

* + - * 1. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        2. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        3. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.

\*\* NOTE TO SPECIFIER \*\* Delete brackets not required.

* + - * 1. Brackets: Standard, box type.
        2. Brackets: Extension brackets.
        3. Brackets: Hold down brackets.

\*\* NOTE TO SPECIFIER \*\* Delete valance not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe 2-Slat.
        3. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

* + 1. Window Coverings: Bali Apartment Aluminum Horizontal Mini Blinds as manufactured by SWFcontract.
       1. Slats:
          1. Materials: 5000 series cold-rolled aluminum.
          2. Nominal Width: 1 inch (25 mm).
          3. UL Greenguard Gold certified.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: White satin polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
        2. Finish: Alabaster polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Type: Solid .006 inch (0.15 mm) thick (standard).

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support.

\*\* NOTE TO SPECIFIER \*\* Delete options for ladder spacing not required.

* + - * 1. Ladder Spacing: 21.5 mm (14.17 slats per foot), standard.
        2. Ladder Spacing: 20 mm (15.24 slats per foot).
        3. Ladder Spacing: 22.5 mm (13.54 slats per foot).
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1 inches (25 mm) wide x .025 inch (0.64 mm) thick.

Description: U-shaped steel.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.
        2. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        3. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        4. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.
        5. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.

\*\* NOTE TO SPECIFIER \*\* Delete brackets not required.

* + - * 1. Brackets: Extension brackets.
        2. Brackets: Hold down brackets.

\*\* NOTE TO SPECIFIER \*\* Delete valance type not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe 2-Slat.
        3. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Coordinates with 3-1/2 inch PVC vertical louvers.

* + 1. Window Coverings: SWFcontract 2 inch Designer Vinyl Blinds.
       1. Slats: Straight cut edges.
          1. Materials: Rigid UV stabilized crowned PVC.
          2. Nominal Width: 2 inches.
          3. Thickness: .045 inch (1.1 mm) thick.
          4. Compliance: NFPA 701.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrails: SureClose Headrail.

Size: 1-5/8 inch (41 mm) high x 2-1/4 inch (57 mm) wide x .022 inch (0.56 mm) thick.

Description: U-shaped steel with 1/8 inch (3.2 mm) light blocking lip on the bottom centerline.

Finishing: Phosphate treatment, chrome-free sealer, low HAP urethane primer and topcoat with low HAP polyester baked enamel.

\*\* NOTE TO SPECIFIER \*\* Delete tilter types not required.

* + - * 1. Tilters: Cord tilter, snap-in, low-friction thermoplastic worm and pulley design, nylon gear housing; secured to pulley and treated with wood tassels at tilt end.
        2. Tilters: Wand tilter.
        3. Tilters: Ring tilter.
        4. Cord Locks: Metal, snap-in design incorporating a floating, shaft-type locking pin. Cord lock shall incorporate a crash proof safety feature that will lock blind automatically upon release of cord. End of lift cords will be treated with tassels.

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

* + - * 1. Ladders: Braided ladder, 100 percent polyester incorporating two extra strength rungs per ladder to support slats.

\*\* NOTE TO SPECIFIER \*\* Fabric tape available with Premium product series. Delete if not required.

* + - * 1. Ladders: Fabric tape, nominal 1 inch (25 mm).
        2. Ladders: Fabric tape, nominal 1-1/2 inches (38 mm).
        3. Ladder Spacing: 44 mm.

\*\* NOTE TO SPECIFIER \*\* Delete valance type not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe.
        3. Bottomrails: Extruded foam PVC 3/4 inch (19 mm) high x 2 inches (51 mm) wide and shall coordinate with slats.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. ALUMINUM HORIZONTAL MICRO BLINDS
     1. Window Coverings: Bali S4000 Aluminum Horizontal Micro blinds as manufactured by SWFcontract.
        1. Slats:
           1. Materials: 5000 series cold-rolled aluminum.
           2. Nominal Width: 1/2 inch.
           3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
           4. UL Greenguard Gold certified
           5. Type: Solid .006 inch (0.15 mm) thick (standard).

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1-1/2 inches (38 mm) wide x .025 inch (0.64 mm) thick.

Description: Steel valance-free design with curved front profile, rolled edges at the top and a light blocking lip at the lower back side.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Tilt Limiter: Limits slat operation between a select range of operation.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with 0, 20, 40, 60 or 75 to designate degree of tilt.

Degrees Up: \_\_\_.

Degrees Down: \_\_\_.

* + - * 1. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        2. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        3. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.
        2. Brackets: Box brackets.
        3. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support. Standard ladder spacing shall be 12.5 mm.
        4. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

* + 1. Window Coverings: Bali Aluminum Horizontal Micro blinds as manufactured by SWFcontract.
       1. Slats:
          1. Materials: 5000 series cold-rolled aluminum.
          2. Nominal Width: 1/2 inch.
          3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
          4. UL Greenguard Gold certified
          5. Type: Solid .006 inch (0.15 mm) thick (standard).

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrail:

Size: 1 inches (25 mm) high x 1 inches (25 mm) wide x .025 inch (0.64 mm) thick.

Description: U-shaped steel.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Tilters: Injection-molded thermoplastics, incorporates clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Tilt Limiter: Limits slat operation between a select range of operation.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with 0, 20, 40, 60 or 75 to designate degree of tilt.

Degrees Up: \_\_\_.

Degrees Down: \_\_\_.

* + - * 1. Tilt Rods: Electro-zinc coated solid steel measuring 1/4 inch (13 mm) square.
        2. Tilt Wands: Clear polycarbonate with hexagonal cross section measuring approximately 1/4 inch diameter, attached to tilter shaft by means of spring clip.
        3. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Drum and Cradles: Low-friction thermoplastic, provided for each ladder.
        2. Brackets: Box brackets.

\*\* NOTE TO SPECIFIER \*\* Delete valance option not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe 2-Slat.
        3. Braided Ladders: 100 percent polyester yarn incorporating two extra strength rungs per ladder for slat support. Standard ladder spacing shall be 12.5 mm.
        4. Bottomrails: Enclosed tubular shape.

Materials: Phosphate-treated steel, finished with a chrome-free sealer.

Finish: Low HAP urethane primer and a topcoat of low HAP polyester baked enamel, .025 inch (0.64 mm) thick.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. ALUMINUM HORIZONTAL BLINDS
     1. Window Coverings: Bali Heritage 2 inch Aluminum Horizontal Blinds as manufactured by SWFcontract.
        1. Slats:
           1. Materials: 5000 series cold-rolled aluminum.
           2. Nominal Width: 2 inches.
           3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
           4. UL Greenguard Gold certified
           5. Type: Solid .008 inch (0.20 mm) thick (standard).
           6. Type: Inverted.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrail: SureClose Headrail.

Size: 1-5/8 inch (41 mm) high x 2-1/4 inch (57 mm) wide x .022 inch (0.56 mm) thick.

Description: U-shaped steel with 1/8 inch (3.2 mm) light blocking lip on the bottom centerline.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

* + - * 1. Motors: Tilt wirefree motor. Provides tilt control of 2" horizontal blinds.

Description: Capable of precision tilting of blind slats

Motor type: Low voltage wired.

Motors: concealed inside headrail.

Motor size: To be determined by blind manufacturer to insure proper operation based on window size up to 7,200 square feet.

Speed: 5 rpms.

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

\*\* NOTE TO SPECIFIER \*\* Delete tilter types not required.

* + - * 1. Tilters: Cord tilter, snap-in component incorporating a worm and pulley of low-friction thermoplastic and a nylon gear; standard 1.8 mm in diameter.
        2. Tilters: Wand tilter.
        3. Tilters: Ring tilter.
        4. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Ladders:

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

Type: Braided ladders.

Type: Fabric tape.

* + - * 1. Bottomrails: C-shaped, enclosed with a dust cover slat.

Size: 9/16 inch (14 mm) high x 2 inches (51 mm) wide x .040 inch (1 mm) thick.

Materials: Anodized aluminum.

Finish: Polyester baked enamel to match headrail.

\*\* NOTE TO SPECIFIER \*\* Delete optional deluxe valances if not required.

* + - * 1. Valance: Standard
        2. Valance: Deluxe.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Window Coverings: Bali Heritage 2 inch School Aluminum Horizontal Blinds as manufactured by SWFcontract.
       1. Slats:
          1. Materials: 5000 series cold-rolled aluminum.
          2. Nominal Width: 2 inches.
          3. Finish: Polyester baked enamel, with Advanced Finishing Technology (AFT) which delivers anti-static performance to repel dust.
          4. UL Greenguard Gold certified
          5. Type: Solid .008 inch (0.20 mm) thick (standard).
          6. Type: Inverted.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrail: SureClose Headrail.

Size: 1-5/8 inch (41 mm) high x 2-1/4 inch (57 mm) wide x .022 inch (0.56 mm) thick.

Description: U-shaped steel with 1/8 inch (3.2 mm) light blocking lip on the bottom centerline.

Finish: Includes phosphate treatment, a chrome-free sealer, a low HAP urethane primer and a topcoat with low HAP polyester baked enamel.

\*\* NOTE TO SPECIFIER \*\* Delete tilter types not required.

* + - * 1. Tilters: Cord tilter, snap-in component incorporating a worm and pulley of low-friction thermoplastic and a nylon gear; standard 2.2 mm in diameter.
        2. Tilters: Wand tilter.
        3. Tilters: Ring tilter.
        4. Cord Locks: Metal, snap-in design with floating, shaft-type locking pin and crash proof safety feature that locks blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Top lock cord lock provides for only two blind positions; fully down or fully raised.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

* + - * 1. Lift Cords: Braided polyester measuring 2.2 mm in diameter.
        2. Vinyl Ladder Tape: 1-1/2 inch wide reinforced vinyl.
        3. Ladder Spacing: Standard, 42 mm.
        4. Bottomrails: C-shaped, enclosed with a dust cover slat.

Size: 9/16 inch (14 mm) high x 2 inches (51 mm) wide x .040 inch (1 mm) thick.

Materials: Anodized aluminum.

Finish: Polyester baked enamel to match headrail.

\*\* NOTE TO SPECIFIER \*\* Delete optional deluxe valances not required.

* + - * 1. Valance: Standard.
        2. Valance: Deluxe.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. WOOD HORIZONTAL BLINDS
     1. Window Coverings: SWFcontract Elite Woods 2 inch Wood Horizontal Blinds.
        1. Slats:

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Slat Type: Standard.
        2. Slat Type: NoHoles slats.
        3. Nominal Slat Width: 2 inches.
        4. Thickness: .115 inch (2.9 mm) thick.
        5. Materials: Lineal grained and smooth sanded 100 percent North American basswood, kilned dried to 6 - 10 percent moisture content to reduce warping.

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with color designation. Stain Hue may vary in intensity due to natural variations in wood texture and grain. Delete finish not required.

* + - * 1. Finish: Painted, color \_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Standard Slat Color Name: \_\_\_\_\_\_\_\_.

Custom Slat Color Name: Colors by Choice color program, \_\_\_\_\_\_\_\_.

Slat Color Number: \_\_\_\_\_\_\_\_.

* + - * 1. Finish: Stained and coated with clear satin lacquer, hand-rubbed appearance.
        2. Finish: Stained and coated with high polish satin lacquer.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Beaded Slats: \_\_\_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrails: 1-5/8 inch (41 mm) high x 2-3/8 inch (60 mm) wide x .025 inch (1.4 mm) thick U-shaped steel with 1/8" light-blocking lip
         2. Valance: Lineal grained, smooth sanded 100 percent North American basswood.
         3. Motors: Tilt wirefree motor. Provides tilt control of 2" horizontal blinds.

Description: Capable of precision tilting of blind slats

Motor type: Low voltage wired.

Motors: Concealed inside headrail.

Motor size: To be determined by blind manufacturer to insure proper operation based on window size up to 7,200 square feet.

Speed: 5 rpms.

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit.

Power Supply Type: 5-10 motor Transformer Kit.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

Type: Four bead.

Type: Crown molded.

\*\* NOTE TO SPECIFIER \*\* Delete tilter types not required.

* + - * 1. Tilters: Cord operated, low-friction thermoplastic worm and pulley design, nylon gear housing.
        2. Tilters: Wood wand tilter.
        3. Tilters: Ring tilter.

\*\* NOTE TO SPECIFIER \*\* Delete tassels not required.

* + - * 1. Tassels: Antique brass.
        2. Tassels: Wood tassels
        3. Cord Locks: Snap-in metal design, incorporating a floating, shaft-type locking pin and a crash proof safety feature that will lock blind automatically upon release of cord.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

Operation: Standard.

Operation: Ring Pull, provide plated steel ring in lieu of tassels, nominal 4 inch cord.

Operation: Cordless.

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

* + - * 1. Ladders: Nominal 2 inch.
        2. Ladders: Nominal 2-1/2 inches.
        3. Ladders: COM fabric.
        4. Ladders: Braided ladder roll, secured around body of ladder with stainless steel wire loop, secured to the tilt rod to ensure tight closure of slats.

Materials: Polyester Dacron yarn.

* + - * 1. Ladder Spacing: Standard, 44 mm.
        2. Bottomrails:

Materials: Lineal grained and smooth sanded 100 percent North American basswood, kilned dried to 6 - 10 percent moisture content to reduce warping.

Description: Contour molded to a shape of 3/8 inch (9.5 mm) x 2 inches (51 mm) with 1/8 inch (3.2 mm) radius rounded edges.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Decorative Trims: As scheduled and indicated on Drawings.
    1. Window Coverings: SWFcontract Traditions 1 inch Wood Horizontal Blinds.
       1. Slats:
          1. Nominal Slat Width: 1 inch (25 mm).
          2. Materials: Lineal grained and smooth sanded 100 percent North American basswood, kilned dried to 6 - 10 percent moisture content to reduce warping.

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with color designation. Stain Hue may vary in intensity due to natural variations in wood texture and grain. Delete finish not required.

* + - * 1. Finish: Painted, color \_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Standard Slat Color:

Color Name: \_\_\_\_\_\_\_\_.

Color Number: \_\_\_\_\_\_\_\_.

Custom Slat Color Name: Colors by Choice color program, \_\_\_\_\_\_\_\_.

* + - * 1. Finish: PureGrain finish.
        2. Finish: Stained and coated with clear satin lacquer, hand-rubbed appearance.
        3. Finish: Stained and coated with high polish satin lacquer.
      1. Components:
         1. Headrails: 1 inch (25 mm) high x 1-1/2 inch (38 mm) wide x .025 inch (0.64 mm) thick U-shaped steel.
         2. Finishing: Phosphate treatment, chrome-free sealer, low HAP urethane primer and topcoat with low HAP polyester baked enamel.
         3. Operation: Tilters, injection-molded thermoplastics for smooth low-friction operation and will incorporate a clutch mechanism to prevent damage due to over tilting.

\*\* NOTE TO SPECIFIER \*\* Delete tilter type not required.

Type: Wood wand tilter, standard.

Type: Ring tilter.

* + - * 1. Cord Locks: Snap-in design incorporating a stainless steel wear guard over which cords pass. A floating, shaft-locking pin will lock blind at any position and shall be crash proof.

\*\* NOTE TO SPECIFIER \*\* Delete option for end of lift cords not required.

* + - * 1. End of Lift Cords: Treated with wooden tassels.
        2. End of Lift Cords: Ring pulls, plated steel ring in lieu of tassels with nominal 4 inch cord.

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

* + - * 1. Ladders: Braided ladders, 100 percent polyester incorporating two extra strength rungs per ladder to support slats.
        2. Bottomrails: 5/8 inch (16 mm) high x 1 inch (25 mm) wide wood and finished to coordinate with slat color.
    1. Window Coverings: SWFcontract Traditions 2 inch Wood Horizontal Blinds.
       1. Slats:

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Slat Type: Standard.
        2. Slat Type: NoHoles slats.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Nominal Slat Width: 2 inches.
        2. Nominal Slat Width: 2-1/2 inches Shutter style.
        3. Nominal Slat Width: 2-3/8 inches.
        4. Thickness: 1/8 inch (3.2 mm).
        5. Materials: Lineal grained and smooth sanded 100 percent North American basswood, kilned dried to 6 - 10 percent moisture content to reduce warping.

\*\* NOTE TO SPECIFIER \*\* Fill in blank below with color designation. Stain Hue may vary in intensity due to natural variations in wood texture and grain. Delete finish not required.

* + - * 1. Finish: Painted, color \_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Standard Slat Color:

Color Name: \_\_\_\_\_\_\_\_.

Color Number: \_\_\_\_\_\_\_\_.

* + - * 1. Finish: PureGrain finish.
        2. Finish: Stained and coated with clear satin lacquer, hand-rubbed appearance.
        3. Finish: Stained and coated with high polish satin lacquer.
      1. Components:
         1. Headrails: SureClose Headrail.

Size: 1-5/8 inch (41 mm) high x 2-1/4 inch (57 mm) wide x .022 inch (0.56 mm) thick.

Description: U-shaped steel with 1/8 inch (3.2 mm) light blocking lip on the bottom centerline.

Finishing: Phosphate treatment, chrome-free sealer, low HAP urethane primer and topcoat with low HAP polyester baked enamel.

\*\* NOTE TO SPECIFIER \*\* Delete operation not required.

* + - * 1. Operation: Cordless.
        2. Operation: Tilters, cord tilter, snap-in, low-friction thermoplastic worm and pulley design, nylon gear housing; secured to pulley and treated with wood tassels at tilt end.
        3. Operation: Tilters, wood wand tilter.
        4. Operation: Tilters, ring tilter.
        5. Cord Locks: Snap-in design incorporating a stainless steel wear guard over which cords pass. A floating, shaft-locking pin will lock blind at any position and shall be crash proof.

\*\* NOTE TO SPECIFIER \*\* Delete option for end of lift cords not required.

* + - * 1. End of Lift Cords: Treated with wooden tassels.
        2. End of Lift Cords: Ring pulls, plated steel ring in lieu of tassels with nominal 4 inch cord.

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

* + - * 1. Ladders: Braided ladders, 100 percent polyester incorporating two extra strength rungs per ladder to support slats.
        2. Ladders: Fabric tapes.
        3. Ladder Spacing: 44 mm.
        4. Bottomrails: 5/8 inch (16 mm) high x 2 inch (51 mm) wide wood in a trapezoid shape to improve closure and finished to coordinate with slats.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. FAUX WOOD BLINDS

\*\* NOTE TO SPECIFIER \*\* Traditions® and Lake Forest® Faux Wood offer stylish alternatives to natural wood blinds. Graber® Faux Wood blinds are available in a broad assortment of woodtone and solid colors that coordinate with Graber Traditions® natural wood blinds. Delete if not required.

* + 1. Window Coverings:

\*\* NOTE TO SPECIFIER \*\* Delete blinds not required.

* + - 1. Blinds: SWFcontract Traditions Lake Forest Faux Wood Blinds.
         1. Surface Appearance: Printed slats mimic the look of real wood.
      2. Slats: Straight cut edges.

\*\* NOTE TO SPECIFIER \*\* Delete width not required.

* + - * 1. Slat Width: 2 inches (51 mm).
        2. Slat Width: 2.5 inches (63 mm).

\*\* NOTE TO SPECIFIER \*\* NoHoles slats not available with fabric tapes. Delete slat types not required.

* + - * 1. Slat Type: Standard.
        2. Slat Type: NoHoles slats.
        3. Materials: Rigid UV stabilized flat PVC
        4. Nominal Width: 2 inches wide.
        5. Thickness: .10 inches thick.
        6. Compliance: FR Rated and NFPA 701.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Slat Color Name: \_\_\_\_\_\_\_\_.
        2. Slat Color Number: \_\_\_\_\_\_\_\_.
      1. Components:
         1. Headrails: SureClose Headrail.

Size: 1-5/8 inch (41 mm) high x 2-1/4 inch (57 mm) wide x .022 inch (0.56 mm) thick.

Description: U-shaped steel with 1/8 inch (3.2 mm) light blocking lip on the bottom centerline.

Finishing: Phosphate treatment, chrome-free sealer, low HAP urethane primer and topcoat with low HAP polyester baked enamel.

\*\* NOTE TO SPECIFIER \*\* Delete operation not required.

* + - * 1. Operation: Cordless.
        2. Operation: Tilters, cord tilter, snap-in, low-friction thermoplastic worm and pulley design, nylon gear housing; secured to pulley and treated with wood tassels at tilt end.
        3. Cord Locks: Metal, snap-in design incorporating a floating, shaft-type locking pin. Cord lock shall incorporate a crash proof safety feature that will lock blind automatically upon release of cord. End of lift cords will be treated with tassels.

\*\* NOTE TO SPECIFIER \*\* Delete ladders not required.

* + - * 1. Ladders: Braided ladder, 100 percent polyester incorporating two extra strength rungs per ladder to support slats.

\*\* NOTE TO SPECIFIER \*\* NoHoles slats not available with fabric tapes. Delete if not required.

* + - * 1. Ladders: Fabric tape.
        2. Ladder Spacing: 44 mm.
        3. Bottomrails: Extruded foam PVC 9/16 inch (14 mm) high x 2 inches (51 mm) wide, coordinates with slats.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. VERTICAL BLINDS

\*\* NOTE TO SPECIFIER \*\* Graber® vertical blinds provide superior strength and exceptional performance with a wide choice of headrail and louver options. Features such as EZ-Open™ and One Touch® wand control allow customization for any project.

* + 1. Window Coverings: SWFcontract G-98 Ultra-Vue Vertical Blinds.
       1. Louvers: As selected by Architects from the Graber line of PVC offerings.

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - * 1. Type: 3-1/2 inch PVC.
        2. Type: 2 inch PVC.
        3. Type: 3-1/2 inch Fabric.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Louver Color Number: \_\_\_\_\_\_\_\_\_.
        2. Louver Color Name: \_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Channel Panel Insert for Fabric Louvers:

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Insert Color Name: \_\_\_\_\_\_\_\_\_.

Insert Color Number: \_\_\_\_\_\_\_\_\_.

* + - 1. Components:

\*\* NOTE TO SPECIFIER \*\* Not available on channel panel or 2 inch PVC louvers. Delete if not required.

* + - * 1. Bottom Chain: Provide optional bottom chain.
        2. Headrails:

Materials: Anodized aluminum alloy 6063-T5 with a bright dip finish.

Size: 1-3/8 inches (35 mm) wide x 1-3/16 inches (30 mm) high.

Average Wall Thickness: .050 inch (1.3 mm)

* + - * 1. Carriers: Carriers shall be centrally located making the headrail reversible and are replaceable without demounting the headrail.

Materials: Molded acetyl 5/16 inch (8 mm) wide, non-yellowing.

Description: Traverses on self-lubricated wheels, standard stack release mechanism allows stack to be moved away from stack end access.

* + - * 1. Rotation Control: Gear ratio of 6:1.

\*\* NOTE TO SPECIFIER \*\* Delete control type not required.

Control Type: Standard, bead chain, No. 6 nickel-plated steel.

Control Type: One Touch wand control, one way draw only, not available with 2 inch louvers.

Rack and Pinion Gear System: Provides 180 degrees direct rotation.

Pinion Rods: Extruded aluminum 0.235 inch (6 mm) diameter.

* + - * 1. Traversing Control: Stainless steel spacer system for uniform louver spacing.
        2. Traverse Cord: Danskord 1.8 mm diameter and is equipped with a tension pulley and cord clip.
        3. Cord Clip: Anchored to the wall or window jamb in accordance with CPSC recommendations.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Valances: Provide optional valances.
        2. UL Greenguard Gold certified

\*\* NOTE TO SPECIFIER \*\* Graber G-71 Super-Vue vertical headrails can be manufactured for a wide variety of specialty situations. Specialty shapes include curved, angled, bow, bay or corner applications. The G-71 pantograph system delivers exceptional performance in any commercial project.

* + 1. Window Coverings: SWFcontract G-71 Super-Vue Vertical Blinds.
       1. Louvers: As selected by Architects from the Graber line of PVC offerings.
          1. Type: 3-1/2 inch PVC.
          2. Type: 2 inch PVC.
          3. Type: 3-1/2 inch Fabric.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Louver Color Number: \_\_\_\_\_\_\_\_\_.
        2. Louver Color Name: \_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Channel Panel Insert for Fabric Louvers:

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Insert Color Name: \_\_\_\_\_\_\_\_\_.

Insert Color Number: \_\_\_\_\_\_\_\_\_.

* + - 1. Components:
         1. Headrails:

Materials: Anodized aluminum alloy 6063-T5 with a satin dip finish.

Size: 1-15/16 inches (49 mm) wide x 1-3/8 inches (35 mm) high.

Average Wall Thickness: .050 inch (1.3 mm)

* + - * 1. Carriers: Carriers shall be centrally located making the headrail reversible; carriers and stems are replaceable without demounting the headrail.

Materials: Molded acetyl.

Description: Traverses on self-lubricated wheels.

Stems: Clear, non-yellowing, UV-stabilized nylon; impact-resistant.

\*\* NOTE TO SPECIFIER \*\* Delete options for traversing control not required.

* + - * 1. Traversing Control: Wand.
        2. Traversing Control: Cord.

Traverse Cord: No. 3 braided polyester with a fiberglass core, 0.094 inch (2.4 mm) and is equipped with a tension cord weight and cord clip.

Cord Clip: Anchored to the wall or window jamb during installation in accordance with CPSC recommendations.

\*\* NOTE TO SPECIFIER \*\* Delete options for operation mechanism not required.

* + - * 1. Operation Mechanism: As scheduled and indicated on Drawings.
        2. Operation Mechanism: Rotation control, bead chain, No. 10 nickel-plated steel.

E-Z Open feature automatically rotates louvers open when traverse cord is operated.

Dual Rack and Pinion Gear System: Provides 180 degrees direct rotation.

Pinion Rods: Extruded aluminum 0.30 inch (7.6 mm) diameter.

* + - * 1. Operation Mechanism: One Touch wand control, one way draw only, not available with 2 inch louvers.
        2. UL Greenguard Gold certified
    1. Window Coverings: SWFcontract G-85 Dura-Vue Vertical Blinds.
       1. Louvers: As selected by Architects from the Graber line of PVC offerings.
          1. Type: 3-1/2 inch PVC.
          2. Type: 2 inch PVC.
          3. Type: 3-1/2 inch Fabric.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

* + - * 1. Louver Color Number: \_\_\_\_\_\_\_\_\_.
        2. Louver Color Name: \_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Channel Panel Insert for Fabric Louvers:

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below with name and number designations. Duplicate lines as necessary. Consult manufacturer for options and details.

Insert Color Name: \_\_\_\_\_\_\_\_\_.

Insert Color Number: \_\_\_\_\_\_\_\_\_.

* + - 1. Components:
         1. Headrails: Roll formed, phosphate-treated recycled steel.

Size: 1-1/2 inches (38 mm) wide x 1-1/4 inches (32 mm) high.

Thickness: .027 inches (0.7 mm).

Finish: With baked enamel finish in Ivory Gloss.

* + - * 1. Carriers: Carriers shall be centrally located making the headrail reversible; carriers and stems are replaceable without demounting the headrail.

Description: Traverses on self-lubricated wheels.

Detachable Stems: Clear, non-yellowing, UV-stabilized nylon; impact-resistant.

* + - * 1. Rotation Controls: Standard, bead chain, No. 6 nickel-plated steel.

Dual Rack and Pinion Gear System: Provides 180 degrees direct rotation.

Pinion Rods: Extruded aluminum 0.30 inch (7.6 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete control type not required.

Control Type: Standard, bead chain, No. 6 nickel-plated steel.

Control Type: One Touch wand control, one way draw only, not available with 2 inch louvers.

* + - * 1. Traversing Control: Nylon strap system.

Traverse Cord: No. 3 braided polyester with a fiberglass core, 0.094 inch (2.4 mm) and is equipped with a tension cord weight and cord clip.

Cord Clip: Anchored to the wall or window jamb during installation in accordance with CPSC recommendations.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Valances: Provide optional valances.
        2. UL Greenguard Gold certified

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. CELLULAR SHADES
     1. Window Coverings: SWFcontract CrystalPleat 3/8 inch Double Cell Cellular Shades.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this subparagraph and specify options in final Article in Part 2 ' FABRIC.'

* + - 1. Fabric: Fade and stain resistant, anti-static, anti-microbial.
         1. Compliance: ASTM G 21 and ASTM G 22.
         2. Description: 3/8 inch (9.5 mm) double cell construction selected from an assortment of non-woven spun-lace, point bond 100 percent polyester fabrics.
         3. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - * 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
        2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
        3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
        4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
        5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete lift system not required.

* + - 1. Lift System: Standard.
         1. Cord Locks: Snap-in design, injection-molded thermoplastic, incorporating a metal, free-floating, serrated cord-locking roller.
         2. Lift Cords: 1.2 mm polyester and concealed. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.
         3. Headrails:

Size: 0.665 inch (17 mm) high x 1.540 inch (39 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Continuous Cord Loop Lift System: White cord loop controls lowering and raising shade.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Cordless Lift System: Lift and lowering operation without use of cord controls.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Motor Lift System: Lift and lowering operation with a wireless controller
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Motors:

Motor type: Low voltage wired.

Motors: concealed inside headrail

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

* + 1. Window Coverings: SWFcontract CrystalPleat 3/8 inch Single Cell Cellular Shades.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this subparagraph and specify options in final Article in Part 2 ' FABRIC.'

* + - 1. Fabric: Fade and stain resistant, anti-static, anti-microbial.
         1. Compliance:

Antifungal and Antibacterial: ASTM G 21 and ASTM G 22.

FR Rating: NFPA 701 (scroll FR fabric)

* + - * 1. Description: 3/8 inch (9.5 mm) single cell construction selected from an assortment of non-woven spun-lace, point bond 100 percent polyester fabrics.
        2. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - * 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
        2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
        3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
        4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
        5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete lift system not required.

* + - 1. Lift System: Standard.
         1. Cord Locks: Snap-in design, injection-molded thermoplastic, incorporating a metal, free-floating, serrated cord-locking roller.
         2. Lift Cords: 1.2 mm polyester and concealed. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.
         3. Headrails:

Size: 0.665 inch (17 mm) high x 1.540 inch (39 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Continuous Cord Loop Lift System: White cord loop controls lowering and raising shade.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Cordless Lift System: Lift and lowering operation without use of cord controls.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Motor Lift System: Lift and lowering operation with a wireless controller
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Motors:

Motor type: Low voltage wired.

Motors: concealed inside headrail

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

* + 1. Window Coverings: SWFcontract CrystalPleat 3/4 inch Single Cell Cellular Shades.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + - 1. Fabric: Fade and stain resistant, anti-static, anti-microbial.
         1. Compliance:

Antifungal and Antibacterial: ASTM G 21 and ASTM G 22.

FR Rating: NFPA 701 (scroll FR fabric)

* + - * 1. Description: 3/4 inch (19 mm) single cell construction selected from an assortment of non-woven spun-lace, point bond 100 percent polyester fabrics.
        2. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - * 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
        2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
        3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
        4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
        5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete lift system not required.

* + - 1. Lift System: Standard.
         1. Cord Locks: Snap-in design, injection-molded thermoplastic, incorporating a metal, free-floating, serrated cord-locking roller.
         2. Lift Cords: 1.2 mm polyester and concealed. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.
         3. Headrails:

Size: 0.812 inch (20.6 mm) high x 2 inches (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.375 inch (0.95 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Continuous Cord Loop Lift System: White cord loop controls lowering and raising shade.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.375 inch (0.95 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Cordless Lift System: Lift and lowering operation without use of cord controls.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.375 inch (0.95 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - 1. Lift System:
         1. Motor Lift System: Lift and lowering operation with a wireless controller
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails:

Size: 0.36 inch (0.9 mm) high x 1.54 inch (39 mm) deep.

Materials: Extruded aluminum.

Wall Thickness: 0.045 inch (1.14 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Motors:

Motor type: Low voltage wired.

Motors: concealed inside headrail

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. PLEATED SHADES
     1. Window Coverings: SWFcontract EvenPleat Pleated Shades.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + - 1. Fabric: Flame retardant, fade and stain resistant.
         1. Compliance:

Antifungal and Antibacterial: ASTM G 21 and ASTM G 22.

FR Rating: NFPA 701 (scroll FR fabric)

* + - * 1. Description: Selected from an assortment of fade resistant, 100 percent polyester fabrics. EvenPleat technology ensures pleated material prevents sags or flattens.
        2. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Select fabric styles and enter below. Note that Brighton fabric style is not available for cordless applications.

* + - * 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
        2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
        3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
        4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
        5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete lift system not required.

* + - 1. Lift System: Standard.
         1. Cord Locks: Snap-in design, injection-molded thermoplastic, incorporating a metal, free-floating, serrated cord-locking roller.
         2. Lift Cords: 0.9 mm polyester. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.
         3. Headrails:

Size: 0.812 inch (20.6 mm) high x 2 inches (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
      1. Lift System:
         1. Continuous Cord Loop Lift System: White cord loop controls lowering and raising shade.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
      1. Lift System:
         1. Cordless Lift System: Lift and lowering operation without use of cord controls.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
      1. Lift System:
         1. Motor Lift System: Lift and lowering operation with a wireless controller
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
        2. Motors:

Motor type: Low voltage wired.

Motors: concealed inside headrail

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

* + 1. Window Coverings: SWFcontract FashionPleat Pleated Shades.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below or delete lines for fabric style, color name, color number as applicable. Alternately, delete this paragraph and specify options in final Article in Part 2 ' FABRIC.'

* + - 1. Fabric: Flame retardant, fade and stain resistant.
         1. Compliance:

Antifungal and Antibacterial: ASTM G 21 and ASTM G 22.

FR Rating: NFPA 701 (scroll FR fabric)

* + - * 1. Description: Selected from an assortment of fade resistant, 100 percent polyester fabrics.
        2. Seams: Shades with railroaded fabric will have heat-welded seams.

\*\* NOTE TO SPECIFIER \*\* Delete options below not required.

* + - * 1. Style: \_\_\_\_\_\_\_\_\_\_\_\_.
        2. Color Name: \_\_\_\_\_\_\_\_\_\_\_\_.
        3. Color Number: \_\_\_\_\_\_\_\_\_\_\_\_.
        4. Fabric Style, Color Name, Color Number: As scheduled and indicated on Drawings.
        5. Fabric Style, Color Name, Color Number: As selected by Architect from manufacturer's standard fabric range.

\*\* NOTE TO SPECIFIER \*\* Delete lift system not required.

* + - 1. Lift System: Standard.
         1. Cord Locks: Snap-in design, injection-molded thermoplastic, incorporating a metal, free-floating, serrated cord-locking roller.
         2. Lift Cords: 0.9 mm polyester. A snap tassel and joiner ball connect to a single Danskord for raising and lowering the shade. Cord, tassel and joiner ball are color coordinated with fabric.
         3. Headrails:

Size: 0.812 inch (20.6 mm) high x 2 inches (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
      1. Lift System:
         1. Continuous Cord Loop Lift System: White cord loop controls lowering and raising shade.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
      1. Lift System:
         1. Cordless Lift System: Lift and lowering operation without use of cord controls.
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

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Finish: Painted to coordinate with fabric color.

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      1. Lift System:
         1. Motor Lift System: Lift and lowering operation with a wireless controller
         2. Headrails:

Size: 1-7/16 inches (36.5 mm) high x 2 inch (51 mm) deep.

Materials: Extruded aluminum headrail.

Wall Thickness: 0.045 inch (1.1 mm).

Finish: Painted to coordinate with fabric color.

* + - * 1. Bottomrails: Tubular shaped 0.024 inches (0.6 mm) thick phosphate-treated recycled steel and finished with a polyester primer and a topcoat of polyester baked enamel. The bottomrail shall be finished with a 7/8 inch (22 mm) wide crowned PVC slat, which is fitted into the last fabric pleat.
        2. Motors:

Motor type: Low voltage wired.

Motors: concealed inside headrail

Power Supply Type: Low voltage battery 12 VDC

Power Supply Type: Low voltage wall plug, 110V-120V VAC.

Power Supply Type: Solar Recharge Kit

Power Supply Type: 5-10 motor Transformer Kit

1. EXECUTION
   1. PREPARATION
      1. Inspect mounting surfaces, blocking for shade brackets or pocket assemblies, suspended acoustical or gypsum ceiling for recessed shades and verify field measurements. Prepare substrates using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
      2. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
      3. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   2. INSTALLATION
      1. Install window treatments in accordance with manufacturer's instructions including the following.
         1. Install with adequate clearance to permit smooth operation of the shades throughout entire operational range.
         2. Adjust and balance window coverings to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

\*\* NOTE TO SPECIFIER \*\* Delete if power operated units are not required.

* + - 1. Wire motors and controllers according to specifications and wiring diagrams prior to installation of motorized shades.
      2. Test electrically operated shades for proper operation.
  1. CLEANING AND PROTECTION
     1. Clean surfaces after installation in accordance with manufacturer's written instructions. Do not use cleaning methods involving heat, bleach, abrasives, or solvents.
     2. Protect installed products until completion of project. Repair damaged or improperly installed before Substantial Completion.

END OF SECTION