SECTION 12 20 00

WINDOW TREATMENT

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 \*\* Vertilux Limited; window covering.  
This section is based on the products of Vertilux Limited, which is located at:  
7750 N.W. 79th Place  
Medley, FL 33166  
Toll Free: 800-356-8837  
Phone: 305-593-9494  
Fax: 800-275-1719  
Email: jason.schmucker@vertilux.com.  
Web: www.vertilux.com  
Vertilux is one of the largest Distributors of fabrics and components for the window covering Industry. Vertilux started operation in 1983 in Miami, Florida; and currently has 3 office and warehouse locations in the USA: Miami (Headquarters), Dallas, Los Angeles.  
With distribution out of all 3 locations, our product line includes all the necessary items needed to fabricate Vertical Blinds, Roller Blinds, Wood Blinds, Aluminum Blinds, Cellular Shades and Awnings, including motorization capabilities for all those systems.  
We are proud to have among our customers some of the most prestigious window covering manufacturers in the USA, Canada, Latin America and the Caribbean as well as some selected companies in Europe and Australia.  
In addition to our warehouses facilities in the USA we also have sale offices in Dallas, Los Angeles, Las Vegas, Wisconsin and New York. Furthermore, our network extends through Latin America having also sales offices in El Salvador, Panama, Venezuela, Colombia and Chile. Additionally, beside our sales network we also have exclusive distributors with warehouse facilities in Mexico, Puerto Rico, Dominican Republic, Brazil and El Salvador.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Roller Shades System Types:
       1. Manual operation systems.
       2. Motorized operation systems.
    2. Dual Roller Shade Systems:
       1. Manual operation systems.
       2. Motorized operation systems.
       3. A full line of fabrics.
    3. Vertical Blinds Systems:
       1. Manual operation systems.
       2. Motorized operation systems.
       3. A full line of vertical fabrics.
       4. Vertical Aluminum coils.
    4. Sliding Panels Systems:
       1. Cord or wand operation systems.
       2. Motorized operation systems.
       3. Entire roller shade fabric collection.
    5. Cellular Shades Systems:
       1. Fabrics.
    6. Horizontal Blinds Systems:
       1. Cord or wand operation.
       2. Motorized operation.
       3. Bass wood collection.
       4. Aluminum blinds.
  1. RELATED SECTIONS

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

* + 1. Section 08 50 00 - Windows.
    2. Section 08 60 00 - Roof Windows and Skylights.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be specified, including:
        1. Style, dimensions, profiles, finishes and material descriptions.

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

* + 1. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, product details, installation details, operational clearances, wiring diagrams, assembly and mounting details, typical installation details and recommendations and fit-up to adjacent work, finishes, options and accessories.

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

* + 1. Window Treatment Schedule: With same room designations indicated on the Drawings; including but not limited to opening sizes and key to typical mounting details.
    2. Maintenance Data: Instructions and precautions for cleaning shade cloth material, operating hardware and controls.

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

* + 1. Verification Samples:

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

* + - 1. Fabric: Submit 2 samples, minimum 8 x 11 inches (203 x 279 mm), representing actual products specified for shade cloth.
      2. One complete shade assembly as specified herein.
  1. QUALITY ASSURANCE
     1. Manufacturer's Qualifications: Engaged in manufacturing of products of similar type to that specified, with a minimum of 20 years successful experience.
     2. Installer Qualifications: The installer shall be a firm qualified to install the product specified, as demonstrated by prior experience. Minimum 10 years successful experience installing like products.
     3. Single Source Requirements: To the greatest extent possible provide products specified in this section from a single manufacturer.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect or Owner.
       3. Rebuild mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Delivery: Deliver materials to site protected from damage.
     2. Storage:
        1. Store materials in manufacturer's unopened packaging until ready for installation and in accordance with manufacturer's instructions.
        2. Materials shall be stored in a clean area free of corrosive fumes and dust, and away from construction activities.
        3. Materials shall be stacked horizontally using plastic or wood shims such that drainage and ventilation are provided for, and such that water cannot accumulate in, about, or upon the containers.
  2. 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.
     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.
        1. Building shall be enclosed; windows, frames and sills shall be installed and glazed.
        2. Wet work shall be complete and dry; including but not limited to concrete, masonry, plaster, stucco, terrazzo, sheet rock, spackling, and taping (including sanding).
        3. Ceilings, window pockets, electrical and mechanical work above window treatments shall be complete.
  3. WARRANTY
     1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty against manufacturing defects in materials and workmanship.
        1. Shade: 10 years after completion of installation.
        2. Fabric: For intended use - interior for 10 years, exterior for 5 years from date of shipment.

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

* + - 1. Motors: 5 years.
      2. Electronics and Accessories: 5 years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: VERTILUX Ltd., which is located at:7753 N.W. 79th PlaceMedley, FL 33166Toll Free Tel: 800-356-8837Tel: 305-593-9494Fax: 800-275-1719Email: [request info (craig.briggs@vertilux.com)](https://arcat.com/rfi?action=email&company=VERTILUX%252BLtd.&message=RE%253A%2520Spec%2520Question%2520(12490ver)%253A%2520&coid=50779&spec=12490ver&rep=&fax=800-275-1719);Web: <http://vertilux.com> | <http://www.specvertilux.com>
         1. Contact: Jason Schmucker Email: jason.schmucker@vertilux.com; <http://> / Phone: 805-906-1199.

\*\* 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.

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

* 1. ROLLER SHADES

\*\* NOTE TO SPECIFIER \*\* These systems can have manual, chain, crank or motor operation modes depending on the application. The components come in various colors. Delete the items listed in this paragraph that are not required.

* + 1. Manual Roller Shade Systems:
       1. VTX Clutch System: Clutch made of high-impact nylon.

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

* + - * 1. Color: \_\_\_\_\_\_\_\_.
        2. Color: As selected by Architect from manufacturer's standard selections.

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

* + - * 1. Elegant Hook Mount Clutch: 1-1/8 in (28 mm).
        2. Elegant Hook Mount Clutch: 1-1/4 in (32 mm).
        3. Elegant Hook Mount Clutch: 1-1/2 in (38 mm).
        4. Designer Hook Mount Clutch: 1-1/8 in (28 mm).
        5. Designer Hook Mount Clutch: 1-1/4 in (32 mm).
        6. Designer Hook Mount Clutch: 1-1/2 in (38 mm).
        7. Elegant Tab Mount Clutch: 1-1/8 in (28 mm).
        8. Elegant Tab Mount Clutch: 1-1/4 in (32 mm).
        9. Elegant Tab Mount Clutch: 1-1/2 in (38 mm).
        10. Designer Tab Mount Clutch: 1-1/8 in (28 mm).
        11. Designer Tab Mount Clutch: 1-1/2 in (38 mm).
      1. Vertilux Rollershade Systems:

\*\* NOTE TO SPECIFIER \*\* Cassette systems are perfect for two-shade installations within the length of one cassette. They are available in five colors, with color coordinated end caps that use screws for attachment. Delete cassette option no required or delete both.

* + - * 1. Cassettes: 100 flat.
        2. Cassettes: 100 flat; projection.
        3. Cassettes: 100 round.
        4. Cassettes: 100 round; projection.
        5. Cassettes: 120 flat.
        6. Cassettes: 120 flat; projection.
        7. Cassettes: 120 round.
        8. Cassettes: 120 round; projection.

\*\* NOTE TO SPECIFIER \*\* Fascia systems are the simplest solution to cover roller shade mechanisms. They create uniformity and provide a clean look. Delete Fascia options not required.

* + - * 1. Fascia: 3 in (76 mm) flat.
        2. Fascia: 3 in (76 mm) round.
        3. Fascia: 4 in (102 mm) flat.
        4. Fascia Headrail: Q Box system.

\*\* NOTE TO SPECIFIER \*\* Versatile "open" roller shade system. For VTX hook mount and Motor. Delete if not required.

* + - * 1. EURO Brackets System: Large.
        2. EURO Brackets System: Large, projection.
        3. EURO Brackets System: Medium.
        4. EURO Brackets System: Medium, projection.
        5. EURO Brackets System: Small.
        6. EURO Brackets System: Small, projection.

\*\* NOTE TO SPECIFIER \*\* Compact decorative solution. Ideal for doors, and small windows. All adhesive parts. Removes without a trace of installation. Aesthetic, modern, compact. Insures privacy. Delete FIT system not required or delete both.

* + - * 1. FIT: Chainless system.
        2. FIT: Standard OM system.

\*\* NOTE TO SPECIFIER \*\* Oversized roller shade for both exteriors and interiors. Dropshade, balcony, window or awning application. cable or rod guidance options. crank or motor operation systems. For roller shades up to 19 feet wide. Delete Atos options not required or delete all if not required.

* + - * 1. Atos Dropshade system.
        2. Atos Balcony system.
        3. Atos Windows system.

\*\* NOTE TO SPECIFIER \*\* Oversized exterior roller shade with look of an interior shade. Used outdoors and indoors. Stainless steel components. can be used with cable or rod guidance options and crank or motor operation systems. Roller shades that are up to 23 feet wide. Delete if not required.

* + - * 1. Arion Roller Shade system.

\*\* NOTE TO SPECIFIER \*\* Versatile cassette solution for interior and exterior applications. The zipper guidance guarantees resistance to winds of more than 100 km/h (Spain tests) and 85 km/h (USA tests). Total blackout, providing energy savings of up to 60 percent when used for exteriors. Delete Z-Box guided system option not required or delete both.

* + - * 1. Z Box Guided System: Z Box, 3.93 in (100 mm).
        2. Z Box Guided System: Z Box, 2.12 in (54 mm).

\*\* NOTE TO SPECIFIER \*\* Delete the steel or aluminum tubing paragraph.

* + - 1. Steel Tubing:

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

* + - * 1. Tube: 2-1/2 in (63 mm) diameter galvanized grooved tube.
        2. Tube: 1-3/4 in (45 mm) Structural Tube for 1-1/2 in (38 mm).
      1. Aluminum Tubing:

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

* + - * 1. Tube: 1-1/2 in (38mm) diameter motor tube; mill finish.
        2. Tube: 1-1/8 in (28 mm) diameter with tape.
        3. Tube: 1-1/8 in (28 mm) diameter no tape.
        4. Tube: 1-1/4 in (32 mm) diameter tube with tape.
        5. Tube: 1-1/4 in (32 mm) iameter tube no tape.
        6. Tube: 1-1/2 in (38 mm) diameter tube with tape.
        7. Tube: 1-1/2 in (38 mm) diameter tube no tape.
        8. Tube: 2 in (50 mm) diameter tube with tape.
        9. Tube: 2 in (50 mm) diameter tube no tape.
        10. Tube: 2.16 in (55 mm) diameter tube flat groove; mill finish.
        11. Tube: 2-1/2 in (63 mm) diameter tube with tape.
        12. Tube: 2-1/2 in (63 mm) diameter tube no tape.
        13. Tube: 3-1/4 in (83 mm) diameter tube.
        14. Tube: 1-1/2 in (38 mm) diameter tube with tape.
        15. Tube: 1-1/2 in (38 mm) diameter tube no tape.
        16. Tube: 1-1/2 in (38 mm) diameter tube no tape; mill finish.
        17. Tube: 2 in (50 mm) diameter tube with tape, grooved; mill finish.
        18. Tube: 2 in (50 mm) diameter tube no tape, grooved.
        19. Tube: 2 in (50 mm) diameter heavy duty tube no tape.
        20. Tube: 1.73 in (45 mm) tube, 2 channels, mill finish with tape.
        21. Tube: 1.73 in (45 mm) tube, 2 channels, mill finish no tape.

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

* + - 1. Bottom Rail: Euro slim.
      2. Bottom Rail: Slim.
      3. Bottom Rail: Contemporary.
      4. Bottom Rail: Elegant.
      5. Bottom Rail: Teardrop
      6. Bottom Rail: Classic.
      7. Bottom Rail: Supreme aluminum.

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

* + - 1. Bottom Rail Color: \_\_\_\_\_\_\_\_.
      2. Bottom Rail Color: As selected by Architect from manufacturer's standard selections.
      3. Adapters: Colors as selected by the Architect from manufacturer's standard selections.

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

* + - * 1. For 1-3/4 in (45 mm) heavy duty structural tube, end plug side.
        2. For 1-3/4 in (45 mm) tube for VTX series.
        3. Rollux for 1-1/8 in (55 mm) tube.
        4. For 2-1/2 in (63 mm) tube.
      1. Chain and Chain Components:

\*\* NOTE TO SPECIFIER \*\* Delete chain and chain components not required.

* + - * 1. Safety device for cords and chains.
        2. Small cord and chain weight.
        3. large cord and chain weight.
        4. NPS chain connector for No. 10 chain.
        5. No. 10 plastic chain connector.
        6. No. 10 plastic peanut connector.
        7. No. 10 plastic chain stopper.
        8. Brass chain No.10.
        9. Nickel pleated Steel chain, No 10.
        10. No. 10 Stainless steel chain.
        11. No. 10 plastic chain.
        12. No. 10 plastic chain high density.
        13. Safety device with chain loop 2 ft (610 mm).
        14. No. 10 plastic chain loop high density 2 ft (610 mm).
        15. No. 10 plastic chain loop high density 3 ft (914 mm).
        16. No. 10 plastic chain loop high density 4 ft (1219 mm).
        17. No. 10 plastic chain loop high density 5 ft (1524 mm).
        18. No. 10 plastic chain loop high density 6 ft (1829 mm).
        19. No. 10 plastic chain loop high density 7 ft (2134 mm).
        20. Cord and chain tension device clear with Screws.
        21. Continuous chain connector.
        22. No.10 metal chain splicing tool.

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

* + - * 1. Color: \_\_\_\_\_\_\_\_.
        2. Color: As selected by Architect from manufacturer's standard selections.
      1. Fiberglass insert rod.
      2. Miscellaneous Components:

\*\* NOTE TO SPECIFIER \*\* Delete miscellaneous items not required.

* + - * 1. Silicone oil spray.
        2. Nylon monofilament transparent.
        3. Weather stripping 0.197 x 0.276 in (5 x 7 mm).
        4. Flexible nylon for fabric retainer, 1 in (25 mm).
        5. Narrow tube channel Insert.
        6. Screw for slim bottom rail.
        7. Flat internal hem bar 1 in (25 mm).
        8. Fray-A-Way spray.
        9. Double adhesive tape 3/4 in (19 mm).
        10. Double adhesive tape 1/2 in (13 mm).
        11. Welding tape 11/32 in (9 mm).
        12. Chain and cord tension device clear.
        13. Bottom rail Euro slim end cap.
        14. Bottom rail slim end cap.
        15. Bottom rail contemporary end cap.
        16. Bottom rail elegant end cap.
        17. Bottom rail Teardrop end cap.
        18. Bottom rail classic end cap.
        19. Supreme Bottom rail endcap set.

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

* + - * 1. Color: \_\_\_\_\_\_\_\_.
        2. Color: As selected by Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Roller shade systems.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if shade system is supposed to be manually operated.

* + 1. Motorization:

\*\* NOTE TO SPECIFIER \*\* The Motorization Systems (Celtic II) eliminate the need for manual operation and Blinds and Shades creating a merger between the vanguard in technology and decorative style while at the same time keeping a balance in making it a cost effective solution. Delete if not required.

* + - 1. Tubular Roller Shade Motors: Fractional horsepower, asynchronous configuration with reversible capacitor designed for intermittent operation. Totally enclosed, thermally protected, temperature class A.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 63 mm and 83 mm Tube with Arion System, 78mm Tube with Atos dropshade. Delete if not required.

* + - * 1. 6-700-CN-45E20: Celtic II RF Electronic Motor. For oversized roller shades and dual shades.

Motor Diameter: 1-3/4 in (45mm).

Motor Length: 29 in (737 mm).

Tube Size 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 0.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Medium, cassette 100 Round, cassette 100 Flat, 3 inch Flat Fascia, projection type. Delete if not required.

* + - * 1. 6-700-CM-25E10: Celtic II RF Rechargeable Battery Motor. For roller shades (blackouts, screens, etc.) and dual shades.

Shade Size: Up to 120 x 96 in (3048 x 2438 mm).

Motor Diameter: 1 in (25 mm).

Motor Length: 22.8 in (579 mm).

Tube Size: 1-3/4 in (45 mm). Capacity: 17 lbs (7.7 kg).

Power: 12 Vdc internal battery, 0.90 A.

Output: 15.93 in-lbs (1.8 Nm) at 30 rpm.

Battery charger.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation options: Z Box System 63mm Tube, Euro Bracket Large System 63mm Tube with, 50mm Tube with Euro Bracket System. Delete if not required.

* + - * 1. 6-700-CM-45EQ6: Celtic II RF Ultra Quiet Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1-3/4 in (45 mm).

Motor Length: 27.5 in (698 mm).

Tube Size: 2 in (50 mm). Capacity: 26 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 21.16 (9.53 kg).

Power: 120 Vac, 50/60 Hz, 0.97 A.

Output: 53 in-lbs (6 Nm) at 28 rpm.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 38 mm Tube, Euro Bracket Medium; 45 mm Tube, cassette 100 Round; 45 mm Tube, cassette 100 Flat; 45 mm Tube, 3" Flat Fascia; 38 mm Tube, 3" Flat Fascia; 45 mm Tube. Delete if not required.

* + - * 1. 6-700-CN-35E06: Celtic II RF Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades

Motor Diameter: Series (35mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63mm). Capacity: 26.4 lbs (12 kg).

Power: 220 Vac, 50/60 Hz, 0.96 A.

Output: 53 in-lbs (6 Nm) at 33 rpm.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Brackets Small, Euro Brackets Medium, cassette 100 Round, cassette 100 Flat, cassette 120. Delete if not required.

* + - * 1. 6-700-CM-25E04: Celtic II RF Rechargeable Battery Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1 in (25 mm).

Motor Length. 17.8 in (452 mm).

Tube Size: 1-1/2 in (38 mm) keyed. Capacity: 11 lbs (4.9 kg).

Power: 12 Vdc. Internal Battery, 0.90 A.

Output: 10.62 in-lbs (1.2 Nm) at 30 rpm.

Battery charger and remote control.

Optional Accessories:

Wall control.

Solar battery charger.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 38 mm Tube, Euro Bracket Medium; 45 mm Tube, cassette 100 Round; 45 mm Tube, cassette 100 Flat; 45 mm Tube, 3" Flat Fascia; 38 mm Tube, 3" Flat Fascia; 45 mm Tube. Delete if not required.

* + - * 1. 6-700-CM-35E06: Celtic II RF Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor diameter: 1-3/8 in (35 mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 26.4 lbs (12 kg).

Power: 120 Vac 50/60 Hz, 0.96 A

Output: 53 in-lbs (6 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 63 mm Tube with Arion System, 78 mm Tube with Atos dropshade, and 83 mm Tube with Arion System. Delete if not required.

* + - * 1. 6-700-CN-45R20: Celtic II RF Motor. Oversize roller shades.

Motor diameter: 1-3/4 in (45 mm).

Motor Length: 29 in (737 m).

Tube Size: 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size: 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 1.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 38 mm Tube, Euro Bracket Medium; 45 mm Tube, cassette 100 Round; 45 mm Tube, cassette 100 Flat; 45 mm Tube, 3" Flat Fascia; 38 mm Tube, 3" Flat Fascia; 45 mm Tube. Delete if not required.

* + - * 1. 6-700-CN-35R06: Celtic II RF Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1-3/8 in (35 mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 26.4 lbs (12 kg).

Maximum Limit Cycle: 33 rpm.

Power: 220 Vac, 50/60 Hz, 0.96 A.

Output: 53 in-lbs (6 Nm).

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if motorized large roller shades are not required.

* + - 1. Tubular Motors; Large Roller Shades:

\*\* NOTE TO SPECIFIER \*\* Installation Options: 63mm Tube with Arion System, 78mm Tube with Atos dropshade, and 83mm Tube with Arion System. Delete if not required.

* + - * 1. 6-700-CN-45E20: Celtic II RF Electronic Motor. For oversized roller shades and dual shades.

Motor Diameter: 1-3/4 in (45mm).

Motor Length: 29 in (734 mm).

Tube Size: 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size: 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 0.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Arion System; 63 mm Tube, Atos dropshade; 78 mm Tube. Delete if not required.

* + - * 1. 6-700-CM-45E20: Celtic II RF Electronic Motor. Oversize roller shades.

Motor Diameter: 1-3/4 in (45 mm).

Motor Length: 29 in (734 mm).

Tube Size: 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size: 2-1/2 in (63 mm) Capacity: 108 lbs (48 kg).

Tube Size: 2-3/4 in (70 mm) Capacity: 108 lbs (48 kg).

Tube Size: 3 in (78 mm) Capacity: 108 lbs (48 kg).

Tube Size: 3-1/4 in (83 mm) Capacity: 108 lbs (48 kg).

Power: 120 Vac 50/60 Hz, 0.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mounted and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 63 mm Tube with Arion System, 78 mm Tube with Atos dropshade, and 83 mm Tube with Arion System. Delete if not required.

* + - * 1. 6-700-CN-45R20: Celtic II RF Motor. Oversize roller shades.

Motor Diameter: 1-3/4 in (45 mm).

Motor Length: 29 in (734 mm).

Tube Size: 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size: 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 1.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 63 mm Tube with Euro Brackets Large, 63 mm Tube with Z Box System, and 50 mm Tube with Euro Bracket System. Delete if not required.

* + - * 1. 6-700-Rc-00001: RF Ultra Quiet Mechanical Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: (45 mm).

Motor Length: 31 in (787 mm).

Tube Size: 2 in (50 mm). Capacity: 26 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 21.16 lbs (9.53 kg).

Power: 120 Vac 50/60 Hz, 0.97 A.

Output: 53 in-lbs (6 Nm) at 28 rpm/

Controls: Wall mount and remote.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if battery driven motors are not required.

* + - 1. Battery Motors:

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Brackets Medium, cassette 100 Flat, cassette 100 Round, 3 inch Flat Fascia with, projection type. Delete if not required.

* + - * 1. 6-700-cM-25E10: Celtic II RF Rechargeable Battery Motor. For roller shades (blackouts, screens, etc.) and dual shades. Size: Up to 120 x 96 in.

Motor Diameter: 1 in (25 mm).

Motor Length: 22.8 in (579 mm).

Tube Size: 1-3/4 in (45 mm). Capacity: 17 lbs (7.7 kg)

Power: 12 Vdc internal battery, 0.90 A.

Output: 15.93 in-lbs (1.8 Nm) at 30 rpm.

Battery charger.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: a)Euro Brackets Small, Euro Brackets Medium, cassette 100 Round, cassette 100 Flat, cassette 120. Delete if not required.

* + - * 1. 6-700-cM-25E04: Celtic II RF Rechargeable Battery Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor diameter: 1 in (25 mm).

Motor Length: 17.8 in (452 mm).

Tube Size: 1-1/2 in (38 mm) keyed. Capacity: 11 lbs (4.9 kg).

Power: 12 Vdc Internal Battery, 0.90 A.

Output: 10.62 in-lbs (1.2 Nm) at 30 rpm.

Battery charger and remote control.

Optional Accessories:

Wall control.

Remote control.

Solar battery charger.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Motorization.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Roller Shade Fabrics:

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for full details on the physical properties and color options for Roller shade fabrics. Delete fabrics not required.

* + - 1. Rollux DecoStyle Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      2. Polyscreen Vision Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      3. High Living 2.1 Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      4. Eco-Contract Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      5. Nightfall Blackout Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      6. lntimate Blackout Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      7. VX Screen:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      8. Urban-Chic Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Roller shade fabrics.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Roller Shades Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control.

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

* + - 1. Configuration: Individual shades.
      2. Configuration: Banded shades.
      3. Configuration: Coupled shades.

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

* + - 1. Roll Type: Regular single roll.
      2. Roll Type: Reverse single roll.
      3. Roll Type: Dual band.
      4. Clutch: Operate bi-directionally using an endless control loop. Sized to provide force to resist weight of shade and maintain shade position.
      5. Control Loop: Control shall be on right side as facing the shade unless indicated otherwise.
      6. Mounting: Brackets are configured to be ceiling, wall or jamb mounted as indicated or required.
      7. Spring Lift Assist: Provide spring assist on oversized shades. The wound spring assists shall come in 36 in (914 mm) and 45 in (1143 mm) lengths, reducing lift force to 5 lbs (2.26 kg).
      8. Tube: Extruded aluminum sized per system selected for application.
      9. Fabric Attachment: The fabric shall be heat-welded to a soft vinyl interconnect and press-fit into a keyway, allowing for simple field adjustability, or change of shade band materials.
      10. Hem Bar: The aluminum bar is inserted into the hem pocket and the fabric heat-welded at the top and sides of the bar to provide a refined unobtrusive appearance.
      11. Battens: Where required to maintain shade fabric flatness battens shall be placed at manufacturer's option.
          1. Batten Placement: Align battens to horizontal window frame mullions or related architectural elements as indicated. All shades in a single elevation or room shall have battens if one or more require a batten.

\*\* NOTE TO SPECIFIER \*\* Delete seam provision not required.

* + - 1. Seam Placement: Seam where needed for splicing shall be placed at manufacturer's option to minimize waste.
      2. Seam Placement: Seam where needed for splicing shall align the seams with horizontal window frame mullions or related architectural elements as indicated. All shades in a single elevation or room shall be seamed if one or more require a splice.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Roller shades fabrication.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if roller shades are interior.

* + 1. Exterior Roller Shades Fabrication: Operation by motorization or crank.
       1. Side Channels: Shades secured to side tracks with a zipper locking system. Weighted exposed hem bar has guide tracking into side channel.
       2. Guide Cables: Shades secured to guide cables with cast aluminum eyes attached to ends of concealed stainless-steel hem bar in a welded seam pocket.

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

* + - 1. Provide closure plates and attachment as indicated or required to furnish application and product complying with design intent.

\*\* NOTE TO SPECIFIER \*\* The crank mechanism is for oversized shades and special conditions where standard manual shades will not work and motorization is not a viable alternative. crank operators are an excellent alternative for exterior applications where chains are not recommended. Delete if not required.

* + - 1. Crank Operation:
         1. Gear Ratios: 3/1 to 14/1 shall be as required for size lift requirements.
         2. Handles and Poles: Natural gray finish with plastic sleeve. Universals shall be chromed brass and stainless steel.
         3. Mounting with the shaft coming through the wall or directly from the bottom of the crank as indicated or required.
         4. Handles permanently affixed or secured with hook and eye or bell coupler for removable handles as indicated or required.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Exterior roller shade fabrication.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

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

* 1. DUAL ROLLER SHADES SYSTEMS

\*\* NOTE TO SPECIFIER \*\* These systems can have manual, chain, crank or motor operation modes depending on the application. The components come in various colors. Delete the items listed in this paragraph that are not required.

* + 1. Dual Shade Systems:
       1. VTX Clutch System: Clutch made of high-impact nylon.
          1. Color: \_\_\_\_\_\_\_\_.
          2. Color: As selected by the Architect from manufacturer's standard selections.

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

* + - * 1. Elegant Hook Mount: 1-1/8 in (28 mm).
        2. Elegant Hook Mount: 1-1/4 in (32 mm).
        3. Elegant Hook Mount: 1-1/2 in (38 mm).
        4. Designer Hook Mount: 1-1/8 in (28 mm).
        5. Designer Hook Mount: 1-1/4 in (32 mm).
        6. Designer Hook Mount: 1-1/2 in (38 mm).
        7. Elegant Tab Mount: 1-1/8 in (28 mm).
        8. Elegant Tab Mount: 1-1/4 in (32 mm).
        9. Elegant Tab Mount: 1-1/2 in (38 mm).
        10. Designer Tab Mount: 1-1/8 in (28 mm).
        11. Designer Tab Mount: 1-1/2 in (38 mm).
      1. Vertilux Rollershade Systems:

\*\* NOTE TO SPECIFIER \*\* Cassette systems are perfect for two-shade installations within the length of one cassette. They are available in five colors, with color coordinated end caps that use screws for attachment. Delete cassette option no required or delete both.

* + - * 1. Cassettes: 100 flat.
        2. Cassettes: 100 flat; projection.
        3. Cassettes: 100 round.
        4. Cassettes: 100 round; projection.
        5. Cassettes: 120 flat.
        6. Cassettes: 120 flat; projection.
        7. Cassettes: 120 round.
        8. Cassettes: 120 flat round; projection.

\*\* NOTE TO SPECIFIER \*\* Fascia systems are the simplest solution to cover roller shade mechanisms. They create uniformity and provide a clean look. Delete Fascia options not required.

* + - * 1. Fascia: 3 in (76 mm) flat.
        2. Fascia: 3 in (76 mm) round.
        3. Fascia: 4 in (102 mm) flat.
        4. Fascia Headrail: Q Box system.

\*\* NOTE TO SPECIFIER \*\* Versatile "open" roller shade system. For VTX hook mount and Motor. Delete if not required.

* + - * 1. EURO Brackets System: Large.
        2. EURO Brackets System: Large, projection.
        3. EURO Brackets System: Medium.
        4. EURO Brackets System: Medium, projection.
        5. EURO Brackets System: Small.
        6. EURO Brackets System: Small, projection.

\*\* NOTE TO SPECIFIER \*\* Compact decorative solution. Ideal for doors, and small windows. All adhesive parts. Removes without a trace of installation. Aesthetic, modern, compact. Insures privacy. Delete FIT system not required or delete both.

* + - * 1. FIT: Chainless system.
        2. FIT: Standard OM system.

\*\* NOTE TO SPECIFIER \*\* Oversized roller shade for both exteriors and interiors. Dropshade, balcony, window or awning application. cable or rod guidance options. crank or motor operation systems. For roller shades up to 19 feet wide. Delete Atos options not required or delete all if not required.

* + - * 1. Atos Dropshade system.
        2. Atos Balcony system.
        3. Atos Windows system.

\*\* NOTE TO SPECIFIER \*\* Oversized exterior roller shade with look of an interior shade. Used outdoors and indoors. Stainless steel components. can be used with cable or rod guidance options and crank or motor operation systems. Roller shades that are up to 23 feet wide. Delete if not required.

* + - * 1. Arion Roller Shade system.

\*\* NOTE TO SPECIFIER \*\* Versatile cassette solution for interior and exterior applications. The zipper guidance guarantees resistance to winds of more than 100 km/h (Spain tests) and 85 km/h (USA tests). Total blackout, providing energy savings of up to 60 percent when used for exteriors. Delete Z-Box guided system option not required or delete both.

* + - * 1. Z Box Guided System: Z Box, 3.93 in (100 mm).
        2. Z Box Guided System: Z Box, 2.12 in (54 mm).

\*\* NOTE TO SPECIFIER \*\* Delete the steel or aluminum tubing paragraph.

* + - 1. Steel Tubing:

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

* + - * 1. Tube: 2-1/2 in (63 mm) diameter galvanized grooved tube.
        2. Tube: 1-3/4 in (45 mm) Structural Tube for 1-1/2 in (38 mm).
      1. Aluminum Tubing:

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

* + - * 1. Tube: 1-1/2 in (38mm) diameter motor tube; mill finish.
        2. Tube: 1-1/8 in (28 mm) diameter with tape.
        3. Tube: 1-1/8 in (28 mm) diameter no tape.
        4. Tube: 1-1/4 in (32 mm) diameter tube with tape.
        5. Tube: 1-1/4 in (32 mm) iameter tube no tape.
        6. Tube: 1-1/2 in (38 mm) diameter tube with tape.
        7. Tube: 1-1/2 in (38 mm) diameter tube no tape.
        8. Tube: 2 in (50 mm) diameter tube with tape.
        9. Tube: 2 in (50 mm) diameter tube no tape.
        10. Tube: 2.16 in (55 mm) diameter tube flat groove; mill finish.
        11. Tube: 2-1/2 in (63 mm) diameter tube with tape.
        12. Tube: 2-1/2 in (63 mm) diameter tube no tape.
        13. Tube: 3-1/4 in (83 mm) diameter tube.
        14. Tube: 1-1/2 in (38 mm) diameter tube with tape.
        15. Tube: 1-1/2 in (38 mm) diameter tube no tape.
        16. Tube: 1-1/2 in (38 mm) diameter tube no tape; mill finish.
        17. Tube: 2 in (50 mm) diameter tube with tape, grooved; mill finish.
        18. Tube: 2 in (50 mm) diameter tube no tape, grooved.
        19. Tube: 2 in (50 mm) diameter heavy duty tube no tape.
        20. Tube: 1.73 in (45 mm) tube, 2 channels, mill finish with tape.
        21. Tube: 1.73 in (45 mm) tube, 2 channels, mill finish no tape.
      1. Bottom Rails and Bottom Rail End Caps:
         1. Color: As selected by the Architect from manufacturer's standard selections.

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

* + - * 1. Aluminum Bottom rail I and end caps.
        2. Bottom rail II and end caps.
        3. Aluminum inside tube.
        4. Aluminum tube II.
        5. Bottom rail and end caps.
        6. Supreme aluminum bottom rail and end caps.
        7. Bottom Rail: Tube I cover - grey.
        8. Bottom Rail: Euro Slim.
        9. Bottom Rail: Slim.
        10. Bottom Rail: Contemporary.
        11. Bottom Rail: Elegant.
        12. Bottom Rail: Teardrop.
        13. Bottom Rail: Classic.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Dual shade systems.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if shade system is supposed to be manually operated.

* + 1. Motorization:

\*\* NOTE TO SPECIFIER \*\* The Motorization Systems (Celtic II) eliminate the need for manual operation and blinds and shades creating a merger between the vanguard in technology and decorative style while at the same time keeping a balance in making it a cost effective solution. Delete if not required.

* + - 1. Tubular Roller Shade Motors: Fractional horsepower, asynchronous configuration with reversible capacitor designed for intermittent operation. Totally enclosed, thermally protected, temperature class A.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 2-1/2 in (63mm) tube with Arion System, 3 in (78 mm) tube with Atos dropshade, 3-1/4 in (83 mm) tube with Arion System. Delete if not required.

* + - * 1. 6-700-CN-45E20: Celtic II RF Electronic Motor. For oversized roller shades and dual shades.

Motor Diameter: (45mm).

Motor Length: 29 in (734 mm).

Tube Size 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 0.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Medium, cassette 100 Round, cassette 100 Flat, 3 in (76 mm) Flat Fascia, and projection type. Delete if not required.

* + - * 1. 6-700-CM-25E10: Celtic II RF Rechargeable Battery Motor. For roller shades (blackouts, screens, etc.) and dual shades.

Shade Size: Up to 120 x 96 in (3048 x 2438 mm).

Motor Diameter: 1 in (25 mm).

Motor Length: 22.8 in (579 mm).

Tube Size: 1-3/4 in (45 mm). Capacity: 17 lbs (7.7 kg).

Power: 12 Vdc internal battery, 0.90 A.

Output: 15.93 in-lbs (1.8 Nm) at 30 rpm.

Battery charger.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation options: Z Box System 2-1/2 in (63 mm) tube, Euro bracket large system 2-1/2 in (63 mm) tube with, 2 in (50 mm) tube with Euro bracket system. Delete if not required.

* + - * 1. 6-700-CM-45EQ6: Celtic II RF Ultra Quiet Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1-3/4 in (45 mm).

Motor Length: 27.5 in (698 mm).

Tube Size: 2 in (50 mm). Capacity: 26 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 21.16 (9.53 kg).

Power: 120 Vac, 50/60 Hz, 0.97 A.

Output: 53 in-lbs (6 Nm) at 28 rpm.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 1-1/2 in (38 mm) tube, Euro bracket medium; 1-3/4 in (45 mm) tube, cassette 100 Round; 1-3/4 in (45 mm) tube, cassette 100 flat; 1-3/4 in (45 mm) tube, 3 in (76 mm) flat fascia; 1-1/2 in (38 mm) tube, 3in (76 mm) flat fascia; 1-3/4 in (45 mm) tube. Delete if not required.

* + - * 1. 6-700-CN-35E06: Celtic II RF Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades

Motor Diameter: 1-3/8 in (35mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity:

Power: 220 Vac, 50/60 Hz, 0.96 A.

Output: 53 in-lbs (6 Nm) at 33 rpm.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro brackets small, Euro brackets medium, cassette 100 round, cassette 100 flat, cassette 120. Delete if not required.

* + - * 1. 6-700-CM-25E04: Celtic II RF Rechargeable Battery Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1 in (25 mm).

Motor Length. 17.8 in (452 mm).

Tube Size: 1-1/2 in (38 mm) keyed. Capacity: 11 lbs (4.9 kg).

Power: 12 Vdc. Internal Battery, 0.90 A.

Output: 10.62 in-lbs (1.2 Nm) at 30 rpm.

Battery charger and remote control.

Optional Accessories:

Wall control.

Solar battery charger.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro bracket small; 1-1/2 in (38 mm) tube, Euro bracket medium; 1-3/4 in (45 mm) tube, cassette 100 round; 1-3/4 in (45 mm) tube, cassette 100 flat; 1-3/4 in (45 mm) tube, 3 in (76 mm) flat fascia; 1-1/2 in (38 mm) tube, 3in (76 mm) flat fascia; 1-3/4 in (45 mm) tube. Delete if not required.

* + - * 1. 6-700-CM-35E06: Celtic II RF Electronic Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor diameter: 1-3/8 in (35 mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 26.4 lbs (12 kg).

Power: 120 Vac 50/60 Hz, 0.96 A.

Output: 53 in-lbs (6 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: 2-1/2 in (63 mm) tube with Arion system, 3 in (78 mm) tube with Atos dropshade, and 3-1/4 in (83 mm) tube with Arion system. Delete if not required.

* + - * 1. 6-700-CN-45R20: Celtic II RF Motor. Oversize Roller Shades.

Motor diameter: 1-3/4 in (45 mm).

Motor Length: 29 in (737 m).

Tube Size: 2 in (50 mm). Capacity: 88 lbs (40 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 108 lbs (48 kg).

Tube Size: 2-3/4 in (70 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3 in (78 mm). Capacity: 108 lbs (48 kg).

Tube Size: 3-1/4 in (83 mm). Capacity: 108 lbs (48 kg).

Power: 220 Vac 50/60 Hz, 1.98 A.

Output: 177 in-lbs (20 Nm) at 33 rpm.

Controls: Wall mount and remote control.

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 38 mm Tube, Euro Bracket Medium; 45 mm Tube, cassette 100 Round; 45 mm Tube, cassette 100 Flat; 45 mm Tube, 3" Flat Fascia; 38 mm Tube, 3" Flat Fascia; 45 mm Tube. Delete if not required.

* + - * 1. 6-700-CN-35R06: Celtic II RF Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor Diameter: 1-3/8 in (35 mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 26.4 lbs (12 kg).

Maximum Limit Cycle: 33 rpm.

Power: 220 Vac, 0.96 A.

Output: 53 in-lbs (6 Nm).

\*\* NOTE TO SPECIFIER \*\* Installation Options: Euro Bracket Small; 38 mm Tube, Euro Bracket Medium; 45 mm Tube, cassette 100 Round; 45 mm Tube, cassette 100 Flat; 45 mm Tube, 3" Flat Fascia; 38 mm Tube, 3" Flat Fascia; 45 mm Tube. Delete if not required.

* + - * 1. 6-700-CM-35R06: Celtic II RF Motor. Roller shades (blackouts, screens, etc.) and dual shades.

Motor diameter: (35 mm).

Motor Length: 24 in (610 mm).

Tube Size: 1-1/2 in (38 mm). Capacity: 33 lbs (15 kg).

Tube Size: 1-3/4 in (45 mm). Capacity: 30 lbs (13.63 kg).

Tube Size: 2 in (50 mm). Capacity: 26.4 lbs (12 kg).

Tube Size: 2-1/2 in (63 mm). Capacity: 26.4 lbs (12 kg).

Power: 20 Vac 50/60 Hz, 0.96 A.

Output: 53 in-lbs (6 Nm) at 33 rpm.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Dual shade motorization.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Dual Roller Shade Fabrics:

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for full details on the physical properties and color options for Roller shade fabrics. Delete fabrics not required.

* + - 1. Neolux Essence:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      2. Neolux Avant:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Dual roller shade fabrics.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Roller Shades Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control.

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

* + - 1. Configuration: Individual shades.
      2. Configuration: Banded shades.
      3. Configuration: Coupled shades.

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

* + - 1. Roll Type: Regular single roll.
      2. Roll Type: Reverse single roll.
      3. Roll Type: Dual band.
      4. Clutch: Operate bi-directionally using an endless control loop. Sized to provide force to resist weight of shade and maintain shade position.
      5. Control Loop: Control shall be on right side as facing the shade unless indicated otherwise.
      6. Mounting: Brackets are configured to be ceiling, wall or jamb mounted as indicated or required.
      7. Spring Lift Assist: Provide spring assist on oversized shades. The wound spring assists shall come in 36 in (914 mm) and 45 in (1143 mm) lengths, reducing lift force to 5 lbs (2.26 kg).
      8. Tube: Extruded aluminum sized per system selected for application.
      9. Fabric Attachment: The fabric shall be heat-welded to a soft vinyl interconnect and press-fit into a keyway, allowing for simple field adjustability, or change of shade band materials.
      10. Hem Bar: The aluminum bar is inserted into the hem pocket and the fabric heat-welded at the top and sides of the bar to provide a refined unobtrusive appearance.
      11. Battens: Where required to maintain shade fabric flatness battens shall be placed at manufacturer's option.
          1. Batten placement: Align battens to horizontal window frame mullions or related architectural elements as indicated. All shades in a single elevation or room shall have battens if one or more require a batten.

\*\* NOTE TO SPECIFIER \*\* Delete seam provision not required.

* + - 1. Seam Placement: Seam where needed for splicing shall be placed at manufacturer's option to minimize waste.
      2. Seam Placement: Seam where needed for splicing shall align the seams with horizontal window frame mullions or related architectural elements as indicated. All shades in a single elevation or room shall be seamed if one or more require a splice.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Roller shades fabrication.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

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

* 1. VERTICAL BLIND SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design paragraphs not required and delete and subsequent component items not required.

* + 1. Basis of Design: 3 and 8 Prong systems by Vertilux Limited.
       1. Components:

\*\* NOTE TO SPECIFIER \*\* Delete control set option not required.

* + - * 1. Control set, 3 prong.
        2. Control end set, notchless, 8 prong.

\*\* NOTE TO SPECIFIER \*\* Delete nylon cord option not required.

* + - * 1. No. 2 Nylon cord, medium.
        2. No. 2 Nylon cord, hard.
        3. Tension pulley.

\*\* NOTE TO SPECIFIER \*\* Delete chain and cord options not required.

* + - * 1. No. 6 metal NPB chain connectors.
        2. NPB bead for No. 2 Nylon cord 5/32 in (4 mm).
        3. No. 3 metal NPB chain connector.
        4. Clear plastic cleat for cords.
        5. Plastic chain connector.
        6. No. 6 NPS chain.
        7. Plastic chain 1/8 in (3.2 mm).
        8. No. 6 NPB chain.
        9. No. 3 brass chain.
        10. No. 3 steel chain.
        11. No. 3 plastic chain clear.
        12. Brass chain and clip clear clip.
        13. Steel chain and clip white clip.
        14. Chain and clip plastic - metal weights.
        15. Chain and clip plastic - plastic weights.
        16. NPS chain connector for No. 10 chain.
        17. No. 10 plastic chain connector.
        18. No. 10 brass chain.
        19. No. 10 nickel plated steel, qualified 50/51.
        20. No. 10 stainless steel chain (50/51).
        21. No. 10 plastic chain.
        22. No. 10 plastic chain, high density.
        23. Cord weight pulley.

\*\* NOTE TO SPECIFIER \*\* Delete "L" bracket options not required.

* + - * 1. Two, 7-8 in (178-203 mm) L brackets regular.
        2. Two, 7-8 in (178-203 mm) L brackets and valance holder.
        3. Two, 7-8 in (178-203 mm) L brackets, valance holder and snap for V and T tops.
        4. Two, 7-8 in (178-203 mm) L bracket and snap.
        5. "L" brackets regular, 4 in (102 mm).
        6. Flat extension brackets, 4 in (102 mm).
        7. "L" bracket and valance holder, 4 in (102 mm).
        8. "L" bracket, valance holder and snap for v and T tops, 4 in (102 mm).
        9. "L" bracket and snap regular, 4 in (102 mm).
        10. Snap in bracket.

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

* + - * 1. Plastic carrier heavy duty, 3 prong.
        2. Carrier self-alignment (scissor), 3 prong.
        3. Dummy carrier, 3 prong.
        4. Plastic self-alignment carrier, 8 prong.
        5. Dummy carrier, 8 prong.

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

* + - * 1. Plastic louver weight, 3-1/2 in (89 mm).
        2. Metal louver weight, 3-1/2 in (89 mm).
        3. Sew-in weights.
        4. Plastic louver weight (chainless), 3-1/2 in (89 mm).

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

* + - * 1. Aluminum track T-top 16 ft (4877 mm) carton.
        2. Aluminum track V-top 16 ft (4877 mm) carton.

\*\* NOTE TO SPECIFIER \*\* Delete motor if blinds are to be totally hand operated.

* + - 1. Motor for vertical blinds, left side.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Basis of Design: MX93, 4 Prong Strap System by Vertilux Limited.
       1. Components:
          1. Control for square track.
          2. Cord drive runner for strap system.
          3. Control for hook and wand operation.
          4. Ceiling mount snap in bracket.
          5. Aluminum square flat for vertical blinds.

\*\* NOTE TO SPECIFIER \*\* Delete "L" bracket option not required.

* + - * 1. "L" Bracket and Snap. 2-7/8 in (73 mm).
        2. "L" Bracket and Snap. 4 in (102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete the carrier component options not required.

* + - * 1. Connector for strap carriers.
        2. Individual 4 prong carrier.
        3. Linked carriers right 3-1/8 in (79 mm).
        4. Linked carriers Left 3-1/8 in (79 mm).
        5. Linked carriers right 2-7/8 in (73 mm).
        6. Linked carriers Left 2- 7/8 in (73 mm).
        7. Plastic strap for carriers. 2-7/8 in (73 mm).
        8. Plastic strap for carriers. 3-1/8 in (79 mm).
        9. Master carrier for strap system.
        10. Dummy carrier for strap system, 4 prong.
        11. Connector for scissor carriers.

\*\* NOTE TO SPECIFIER \*\* Delete motor is blinds are to be totally hand operated.

* + - 1. Motor for vertical blinds, left side.
         1. Controls: Wall mounted.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Basis of Design: Tiltrak Systems by Vertilux Limited.
       1. Components:

\*\* NOTE TO SPECIFIER \*\* Delete end control set option not required.

* + - * 1. End control set, fixed wand.

Endcap set, wand control.

Wand hook

Wand knob

Wand clip

Aluminum Wand

* + - * 1. End control set for chain operation.

Cord lock and cord brake.

* + - * 1. Center support.
        2. Fixed friction rod support.

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

* + - * 1. Plastic louver weight. 3-1/2 in (89 mm).
        2. Metal louver weight. 3-1/2 in (89 mm).
        3. Sew-in weights.
        4. Plastic louver weight (chainless). 3-1/2 in (89 mm).

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

* + - * 1. Carrier.
        2. Lead carrier.
        3. Lead carrier, center open.
        4. Linked carrier with 3-1/8 in (80 mm) strap.
        5. Linked carrier with 2 7/8 in (73 mm) strap.
        6. Slope angle carrier

\*\* NOTE TO SPECIFIER \*\* Delete motor is blinds are to be totally hand operated.

* + - 1. Motor for vertical blinds, left side.
         1. Controls: Wall mounted.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Basis of Design: Matrix Systems by Vertilux Limited.
       1. Matrix 4 Prong Pantographic System Square Track.
          1. Components:

Control for square track.

Control for hook and wand operation.

Aluminum square flat for vertical blinds.

\*\* NOTE TO SPECIFIER \*\* Delete "L" bracket options not required.

"L" Bracket and Snap. 2-7/8 in (73 mm).

"L" Bracket and Snap. 4 in (102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete ceiling mount snap bracket option not required.

Ceiling mount snap in bracket for valance.

Ceiling mount snap in bracket.

Self-aligning scissor carrier.

Tiltrod support for scissor carrier.

Magnetic tiltrod support for scissor carrier.

Rivets for adding scissor carriers. 1/8 x 1/4 (2.5 x 5.5 mm).

Connector for scissor carriers (scissor carriers only).

Cord drive master carrier for scissor carrier.

Cord drive runner for scissor carrier.

\*\* NOTE TO SPECIFIER \*\* Delete motor is blinds are to be totally hand operated.

* + - * 1. Motor for vertical blinds, left side.

Controls: Wall mounted.

* + - 1. Matrix 4 Prong Pantographic System Ellipse Track.
         1. Components:

Control for rounded track

Aluminum ellipse track for vertical blinds

\*\* NOTE TO SPECIFIER \*\* Delete "L" bracket options not required.

"L" Bracket and Snap. 2-7/8 in (73 mm).

"L" Bracket and Snap. 4 in (102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete ceiling mount snap bracket option not required.

Ceiling mount snap in bracket for valance.

Ceiling mount snap in bracket.

Self-aligning scissor carrier.

Cord drive master carrier for scissor carrier.

Cord drive runner for scissor carrier.

Tiltrod support for scissor carrier.

Magnetic tiltrod support for scissor carrier.

Rivets for adding scissor carriers. 1/8 x 1/4 (2.5 x 5.5 mm).

\*\* NOTE TO SPECIFIER \*\* Delete motor is blinds are to be totally hand operated.

* + - * 1. Motor for vertical blinds, left side.

Controls: Wall mounted.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete the fabric or aluminum blinds paragraph not required.

* + 1. Vertical Blinds, Fabrics:
       1. Basis of Design: Evolution Vertical Blinds by Vertilux Limited.
          1. Fabric: \_\_\_\_\_\_\_\_
          2. Color: \_\_\_\_\_\_\_\_.
          3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Vertical blinds, fabrics.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Vertical Blinds, Aluminum:
       1. Basis of Design: 3.5 in (89 mm) aluminum.
          1. Color: \_\_\_\_\_\_.
          2. Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Vertical blinds, aluminum.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Vertical Blind Systems Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control.
       1. Bottom hems shall have plated steel weights sonically welded and sealed into folded fabric on 3 sides.

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

* + - 1. Configuration: Straight.
      2. Configuration: Curved - 90 degree.
      3. Configuration: Continuous curve.

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

* + - 1. Draw: Center.
      2. Draw: One way.
      3. Draw: Off set.

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

* + - 1. Operation: Hand.
      2. Operation: Wand.
      3. Operation: Cord.
      4. Operation: Motor.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details: Vertical blind systems fabrication.
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

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

* 1. SLIDING PANELS SYSTEMS
     1. Basis of Design: Zen Sliding Panel Systems by Vertilux Limited.
        1. Components:
           1. End Plug right.
           2. End Plug left.
           3. Flat Weight 1 x 1-8 in (25 x 25-203 mm) mill finish.
           4. Hook for vertical wand control carrier, white.
           5. Wand hook.
           6. Wand knob.
           7. Wand clip.
           8. Aluminum wand.
           9. Cord locking nut.
           10. Cord, 0.14 in (3.5 mm).

\*\* NOTE TO SPECIFIER \*\* Delete installation clip option not required.

* + - * 1. Installation clip 4 and 5 channels.
        2. Installation clip 2 and 3 channels.

\*\* NOTE TO SPECIFIER \*\* Delete "L" bracket options not required.

* + - * 1. Adjustable "L" bracket 3-3/8 to 5-3/4 in (85 to 145 mm).
        2. "L" bracket angle.
        3. Double "L" bracket angle.
        4. Double "L" bracket angle front installation.

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

* + - * 1. Aluminum track, 2 channel.
        2. Aluminum track, 3 channel.
        3. Aluminum track, 4 channel.
        4. Aluminum track, 5 channel.

\*\* NOTE TO SPECIFIER \*\* Delete channel guide options not required

* + - * 1. Channel guide left/right, 2.
        2. Channel guide left/right, 3.
        3. Channel guide left/right, 4.
        4. Channel guide left/right, 5.
        5. Channel stop screw with hook fastener.

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

* + - * 1. Support with needle and screw.
        2. Double support with needle and screw.
        3. Double support with needle and screw front installation.

\*\* NOTE TO SPECIFIER \*\* Delete motor options not require or delete all options if operation is manual.

* + - * 1. Motor set for sliding panels, 4 channel, right side.
        2. Motor set for sliding panels, 4 channel, left side.
        3. Motor set for sliding panels, 5 channel, right side.
        4. Motor set for sliding panels, 5 channel, left side.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Sliding Panel Fabrics by Vertilux Limited:

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

* + - 1. Deco-Styles Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      2. Polyscreen Vision Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      3. High Living 2.1 Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.
      4. Nightfall Blackout Collection:
         1. Fabric: \_\_\_\_\_\_\_\_
         2. Color: \_\_\_\_\_\_\_\_.
         3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Sliding Panel System Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control. Provide top hung fabric panels in multi-track configurations.
       1. Tracks: 2, 3, 4, and 5 channel tracks 1-9/16 x 3-7/16 in (40 to 87 mm) deep by 3/4 in (19 mm) high. Refer to drawings for track type or provide track type required for configuration indicated.

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

* + - 1. Draw: One way draw.
      2. Draw: Center draw.
      3. Draw: Center opening draw.
      4. Draw: Staggered draw.
      5. Draw: As indicated on drawings.
      6. Overlap: 2-1/2 in (64 mm) approximate panel overlap.

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

* + - 1. Edge Banding: As indicated or required.
      2. Fabric Attachment: Velcro hook and loop on panel runner and sewed to fabric.

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

* + - 1. Operation: Hand.
      2. Operation: Wand.
      3. Operation: Cord.
      4. Operation: Motor.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

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

* 1. CELLULAR SHADES SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design paragraph not required and delete and subsequent component items not required.

* + 1. Basis of Design: Elitepleat Systems by Vertilux Limited.
       1. PVC profile with adhesive tape.
       2. PVC profile bushing.
       3. Aluminum track anodized.
       4. "L" installation bracket.
       5. Cord 0.055 in (1.4 mm).
       6. Cord tassel.
       7. Lift cord 0.047 in (1.2 mm).
       8. Aluminum cord connector.
       9. Cord lock right.
       10. Cord lock left.
       11. Return cord 0.031 in (0.8 mm).
       12. Ribbon.
       13. Clear plastic tags.
       14. Arch clips with pin set (2 pcs).
       15. Steel weight with tape.
       16. Plastic end cap.
       17. Plastic end cap with hole.
       18. Ladder.

\*\* NOTE TO SPECIFIER \*\* Delete installation clip option not required.

* + - 1. Installation clip for hexagonal screw.
      2. Low gap installation clip for flat head screw.
      3. Clear plastic bottom arch support.

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

* + - 1. Clear plastic bottom support extension for large shades.

\*\* NOTE TO SPECIFIER \*\* Delete adhesive tape option not required.

* + - 1. Double adhesive tape 3/4 in (19 mm).
      2. Double adhesive tape 1/2 in (13 mm).

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Basis of Design: Versarails Systems by Vertilux Limited.
       1. Components:
          1. Cellular system clutch set, 1 in (25 mm).
          2. Cellular system gearbox, 1 in (25 mm).
          3. Cellular system headrail 14 ft (4267 mm) x 24 pc white.
          4. Cellular system interior plug set for bottom rail, 1 in (25 mm).
          5. Cellular system exterior plug set for bottom rail, 1 in (25 mm).
          6. Cellular system mounting bracket, 1 in (25 mm).
          7. Cellular system lift set, 1 in (25 mm).
          8. Cellular system insert strip, 1 in (25 mm).
          9. Cellular system ferrules, 1 in (25 mm).
          10. Fiberglass shaft 3/8 in (10 mm).

\*\* NOTE TO SPECIFIER \*\* Delete cord components not required.

* + - * 1. Pleated-cord 0.031 in (0.8 mm).
        2. Ivory control cord loops.
        3. White control cord loops.
        4. Cellular system cord loop vanilla, 1 in (25 mm).
        5. Cord/chain tension device clear with screws.

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

* + - * 1. Long spears 5.7 in (145 mm).
        2. Short spears 4.6 in (117 mm).

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Cellular Fabrics:
       1. High Living by Vertilux Limited.
          1. Fabric: \_\_\_\_\_\_\_\_
          2. Color: \_\_\_\_\_\_\_\_.
          3. Fabric and Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Cellular Shades Systems Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

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

* 1. HORIZONTAL BLINDS SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design paragraph not required and delete and subsequent component items not required.

* + 1. Basis of Design: Horizontal Blinds 2 in (51 mm) Systems by Vertilux Limited.
       1. Components:

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

* + - * 1. Headrail, touch wood, 2 in (50 mm).
        2. Headrail, high profile, 2 in (50 mm).
        3. Center support bracket for headrail, 2 in (50 mm).
        4. Blind metal hold down bracket, 2 in (50 mm).

\*\* NOTE TO SPECIFIER \*\* Delete installation bracket not required.

* + - * 1. Hidden, 2 in (50 mm) installation bracket wall/ceiling.
        2. Hidden, 2 in (50 mm) installation bracket.
        3. Installation brackets, 2 in (50 mm).

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

* + - * 1. Lift cord, 0.07 in (1.8 mm).
        2. Lift cord, (0.10 in (2.6 mm).
        3. Cord equalizer large.
        4. Swing cord lock, 2 in (50 mm).

\*\* NOTE TO SPECIFIER \*\* Delete cord lock not required.

* + - * 1. Small flange cord lock (high back), 2 in (50 mm).
        2. Large flange cord lock (high back), 2 in (50 mm).

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

* + - * 1. Cord tilter large flange, 2 in (50 mm)."
        2. Cord tilter small flange, 2 in (50 mm)."

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

* + - * 1. Plastic drum for ladder or tape, 2 in (50 mm).
        2. Metal drum and support for ladder, 2 in (50 mm).
        3. Metal drum and support for tape, 2 in (50 mm).
        4. Braided ladder 1.73 in (44 mm).
        5. Braided ladder clip
        6. Ladder Buttons, 2 in (50 mm).

\*\* NOTE TO SPECIFIER \*\* Delete motor paragraph below if operation is to be manual.

* + - 1. Motor: Celtic II RF Electric Motor.
         1. Motor Diameter: 1-3/8 in (35 mm).
         2. Motor Length: 24 in (610 mm).
         3. Time of Operation: 4 Minutes.
         4. Power: 120 Vac 50/60 Hz, 0.96 A.
         5. Output: 88.5 in-lbs (10 Nm) at 17 rpm.
         6. Controls: Wall mounted and remote.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Basis of Design: Horizontal Blinds 1 in (25 mm) Signum Systems by Vertilux Limited.
       1. Components:
          1. Tilter.
          2. "D" tilt rod.
          3. Head rail end plug, 1 in (25 mm).
          4. "C" type bottom rail end plug, 1 in (25 mm).
          5. Cord lock.
          6. Cord connector.
          7. Cord lock cover.
          8. Tilter cover.
          9. Cord lock tilter cover.
          10. Cord connector cover.
          11. Cord/wand bottom cover.
          12. Louverlux, 1 in (25 mm) plastic slat clip.
          13. Standard "O" ring (1/8 in ID x 1/4 in OD) for "D" tilt rod.
          14. Drum support.
          15. Ladder drum.
          16. Tilt wand 15/64 in (5.8 mm).
          17. Cord/wand inside bottom.

\*\* NOTE TO SPECIFIER \*\* Delete motor paragraph below if operation is to be manual.

* + - 1. Motor: Celtic II RF Electric Motor.
         1. Motor Diameter: 1-3/8 in (35 mm).
         2. Motor Length: 24 in (610 mm).
         3. Time of Operation: 4 minutes.
         4. Power: 120 Vac 50/60 Hz, 0.96 A.
         5. Output: 88.5 in-lbs (10 Nm) at 17 rpm.
         6. Controls: Wall mounted and remote.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete either the aluminum or wood horizontal blinds, whichever is not required.

* + 1. Horizontal Blinds; Aluminum:
       1. Basis of Design: Louverlux by Vertilux Limited.

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

* + - * 1. Perforated 1 in (25 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Solid Colors 1 in (25 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Touch of Wood 1 in (25 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Perforated, 2 in (50 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Solid colors, 2 in (50 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Touch of wood, 2 in (50 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Horizontal Blinds; Wood:
       1. Basis of Design: Horizontal Blinds, 2 in (50 mm) by Vertilux Limited.
          1. Bass Wood Slat, 2 in (50 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Bass Wood Modern Valance, 2-1/2 in (63 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

* + - * 1. Bass Wood Modern Bottom Rail, 2 in (50 mm):

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

Color: As selected by the Architect from manufacturer's standard selections.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.
    1. Horizontal Blinds Systems Fabrication: Custom fabricated to size, color and material as indicated and required to provide light and privacy control.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + - 1. Additional Field Application Details:
         1. \_\_\_\_\_\_\_\_.
         2. \_\_\_\_\_\_\_\_.

1. EXECUTION
   1. EXAMINATION AND PREPARATION
      1. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
      2. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + 1. Additional Field Application Details:
       1. \_\_\_\_\_\_\_\_.
       2. \_\_\_\_\_\_\_\_.
  1. INSTALLATION
     1. Install in accordance with manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.
        1. Install support brackets and with clearance sufficient to permit unencumbered operation of shade and hardware as recommended by manufacturer.
        2. Test for proper operation and adjust until satisfactory results are obtained.
     2. Fabric: Install straight and flat without buckling or distortion. Shade fabric shall not telescope on the roll.
     3. Demonstration: Installer shall demonstrate shade to be in uniform and smooth working order.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + 1. Additional Field Application Details:
       1. \_\_\_\_\_\_\_\_.
       2. \_\_\_\_\_\_\_\_.
  1. PROTECTION
     1. Protect installed products until completion of project.
     2. Touch-up, repair or replace damaged products before Substantial completion.

\*\* NOTE TO SPECIFIER \*\* Use this paragraph to add field specific specification requirements. Delete Additional field application details if not required.

* + 1. Additional Field Application Details:
       1. \_\_\_\_\_\_\_\_.
       2. \_\_\_\_\_\_\_\_.

END OF SECTION