SECTION 10 73 00

AWNINGS AND EXTERIOR SHADES

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\*\* NOTE TO SPECIFIER \*\* Vertilux Limited; awnings, exterior shades, window coverings.  
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: craig@specvertilux.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. Awnings and exterior shades of the following types.
       1. Retractable fabric system, motorized.
       2. Retractable fabric system, manual.
       3. Fabric balcony system, motorized.
       4. Fabric balcony system, manual.
       5. Drop shade system, motorized.
       6. Drop shade system, manual.
       7. Window system.
       8. Duplex system, motorized.
       9. Duplex system, manual.
       10. Drop awning system.
       11. Drop wall system.
  1. RELATED SECTIONS

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

* + 1. Section 08 54 13 - Fiberglass Windows.
    2. Section 08 60 00 - Roof Windows and Skylights.
    3. Section 26 05 00 - Common Work Results for 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. European Standards (EN):
       1. EN 1021 - Furniture. Assessment of the ignitability of upholstered furniture. Ignition source smouldering cigarette.
       2. EN 13561 - External blinds and awnings. Performance requirements including safety.
    2. International Organization of Standardization (ISO):
       1. ISO 4920 - Textile fabrics -- Determination of resistance to surface wetting (spray test).
  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 4 x 6 in (102 x 152 mm), representing actual products specified for shade cloth.
      2. Finishes: Submit 2 samples, minimum 4 x 6 in (102 x 152 mm) representing actual finishes specified for steel and aluminum.
      3. 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.
       3. Remodel 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 Standard Vertilux Limited Warranty: Against manufacturing defects in materials and workmanship.
        1. Shade: Warranted for 10 years after completion of installation.
        2. Fabric: Warranted for intended use - interior for 10 years, exterior for 5 years from date of shipment.

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

* + - 1. Motors: Warranted 5 years - electronics and accessories 5 year.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: VERTILUX Ltd., which is located at: 7753 N.W. 79th Place; Medley, FL 33166; Toll Free Tel: 800-356-8837; Tel: 305-593-9494; Fax: 800-275-1719; Email: [request info (craig.briggs@vertilux.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=VERTILUX+Ltd.&coid=50779&rep=&fax=800-275-1719&message=RE:%20Spec%20Question%20(10530ver):%20%20&mf=); Web: <http://vertilux.com> | <http://www.specvertilux.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.

\*\* NOTE TO SPECIFIER \*\* Retractable Systems or Retractable Awnings are composed of a cover with a frame that retracts against a building or other structure to which it is supported. These systems are great for a variety of applications, including windows, doors, terraces and storefronts. Their ability to provide shade and reduce air conditioning energy costs has made them a very popular option. Retractable Systems also break strong winds and provide protection from rain, snow and other extreme weather conditions. Delete article if not required.

* 1. RETRACTABLE SYSTEMS

\*\* NOTE TO SPECIFIER \*\* This system is designed to be used with awnings that have a 19.7 ft in (6 m) maximum width. Delete basis of design options not required.

* + 1. Basis of Design: California by Vertilux Limited.
       1. Modular folding arm retractable awning on a 1-3/4 (40 mm) galvanized steel and painted steel square bar with a sheathed double cable or stainless-steel chain arms and extruded arm support with adjustable positioning.
          1. The front terminal bar is interchangeable with other Sunlux terminals.
          2. Protection hood in extruded aluminum.
          3. Under roof mounting brackets are also available.
       2. Properties:
          1. Maximum Width: 19.5 ft (5.94 m).
          2. Maximum Height: 19.5 ft (4.11 m).
          3. Maximum Weight: 70 to 110 lbs (31.75 to 49.90 kg).

\*\* NOTE TO SPECIFIER \*\* delete operation option not required.

* + - * 1. Operation: Manual crank.
        2. Operation: Motorized.
      1. Components:
         1. Roll up tube support.
         2. Wall bracket.
         3. Support Bar: 19.8 ft (6 m)
         4. Adjustable arm support.
         5. Arm fixing screw set.
         6. End cap for front profile.
         7. Front profile.
         8. Arms picking runners.
         9. Wall and ceiling extruded bracket.
         10. Support bar end caps

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

* + - * 1. Spring Arms: 43.31 in (1100 mm).
        2. Spring Arms: 63 in (1600 mm).
        3. Spring Arms: 82.68 in (2100 mm).
        4. Spring Arms: 102.36 in (2600 mm).
        5. Spring Arms: 122.05 in (3100 mm).

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

* + - * 1. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m).
        2. Tube, Galvanized: 3-1/16 in (78 mm) diameter 19.7 ft (6.0 m).
        3. Tube, Aluminum, Mill Finish: 3-1/16 in (78 mm) diameter 19.5 ft (5.94 m).

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

* + - * 1. Nylon End Round Tip: 2-3/4 in (70 mm) diameter.
        2. Nylon End Round Tip: 3-1/16 in (78 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete of operation is to be motorized.

* + - * 1. Manual Operation:

Manual system control.

Manual System: Control screw set M6.

M6 screws for gear.

Control screw set M6.

Plastic insert tube.

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

Nylon End Square: 2-3/4 in (70 mm).

Nylon End Square: 3-1/16 in (78 mm).

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

Handle: 47.24 in (1200 mm).

Handle: 55.12 in (1400 mm).

Handle: 70.87 in (1800 mm).

Handle: 78.74 in (2000 mm).

Handle: 94.49 in (2400 mm).

\*\* NOTE TO SPECIFIER \*\* This system is designed to be used with awnings that have a 19.7 ft (6 m) maximum width and a 10.7 ft (3.25 m) maximum projection.

* + 1. Basis of Design: Garbo by Vertilux Limited.
       1. Arms system with interior structure, making the stainless-steel chain invisible. The design of profiles and parts provides security and aesthetics.
       2. Properties:
          1. Width: 76.77 in (1.95 m).
          2. Awning Width: 236.22 in (6 m) maximum.
          3. Awning Projection: 127.95 in (3.25 m) maximum.
       3. Properties:

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

* + - * 1. Manual Operation Non-Crossing Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 76.77 in (1.95 m).

Projection: 68.90 in (1.75 m); Width: 86.61 in (2.20 m).

Projection: 78.74 in (2.00 m); Width: 96.46 in (2.45 m).

Projection: 88.58 in (2.25 m); Width: 107.09 in (2.72 m).

Projection: 98.42 in (2.50 m); Width: 116.14 in (2.95 m).

Projection: 108.27 in (2.75 m); Width: 125.98 in (3.20 m).

Projection: 118.11 in (3.00 m); Width: 135.83 in (3.45 m).

Projection: 127.95 in (3.25 m); Width: 145.67 in (3.70 m).

* + - * 1. Manual Operation Crossing Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 49.21 in (1.25 m); Width: 41.73 in (1.06 m).

Projection: 59.06 in (1.50 m); Width: 46.46 in (1.18 m).

Projection: 68.90 in (1.75 m); Width: 51.57 in (1.31 m).

Projection: 78.74 in (2.00 m); Width: 56.30 in (1.43 m).

Projection: 88.58 in (2.25 m); Width: 62.20 in (1.58 m).

Projection: 98.42 in (2.50 m); Width: 66.93 in (1.70 m).

Projection: 108.27 in (2.75 m); Width: 72.05 in (1.83 m).

Projection: 118.11 in (3.00 m); Width: 76.77 in (1.95 m).

* + - * 1. Motorized Operation: Rolling Tube: 2-3/4 in (70 mm) diameter.

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

Awning Width up to 236.22 in (6 m), Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 76.77 in (1.95 m)

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Width: 86.61 in (2.20 m).

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Width: 96.46 in (2.45 m).

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Width: 107.09 in (2.72 m).

Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Width: 116.14 in (2.95 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Width : 125.98 in (3.20 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Width: 135.83 in (3.45 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 127.95 in (3.25 m); Width: 145.67 in (3.70 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Awning Width up to 472.44 in (12 m), Four Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 76.77 in (1.95 m)

Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Width: 86.61 in (2.20 m).

Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Width: 96.46 in (2.45 m).

Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Width: 107.09 in (2.72 m).

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Width: 116.14 in (2.95 m).

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Width: 125.98 in (3.20 m).

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Width: 135.83 in (3.45 m).

Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 127.95 in (3.25 m); Width: 145.67 in (3.70 m).

Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

* + - * 1. Motorized Operation: Rolling Tube: 3.15 (80 mm) diameter.

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

Awning Width up to 236.22 in (6 m), Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 76.77 in (1.95 m)

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Width: 86.61 in (2.20 m).

Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Width: 96.46 in (2.45 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Width: 107.09 in (2.72 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Width: 116.14 in (2.95 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Width: 125.98 in (3.20 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Width: 135.83 in (3.45 m).

Power Output: 442.54 in-lbs (50 Nm) at 12 rpm.

Projection: 127.95 in (3.25 m); Width: 145.67 in (3.70 m).

Power Output: 442.54 in-lbs (50 Nm) at 12 rpm.

Awning Width up to 472.44 in (12 m), Four Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 76.77 in (1.95 m)

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Width: 86.61 in (2.20 m).

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Width: 96.46 in (2.45 m).

Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Width: 107.09 in (2.72 m).

Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Width: 116.14 in (2.95 m).

Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Width: 125.98 in (3.20 m).

Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Width: 135.83 in (3.45 m).

Power Output: 885.07 in-lbs (100 Nm) at 12 rpm.

Projection: 127.95 in (3.25 m); Width: 145.67 in (3.70 m).

Power Output: 885.07 in-lbs (100 Nm) at 12 rpm.

* + - * 1. Awning Cazorla plug kit, white 2-3/4 in (70 mm).
        2. SP terminal kit.
        3. Calypso support set white.
        4. Articulated arm kit.
        5. Cazorla plus profile white 2-3/4 in (70 mm).
        6. Techno support kit with SP terminal white.
        7. Transmission support.

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

* + - * 1. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m)
        2. Tube, Galvanized: 3-1/16 in (78 mm) diameter 19.7 ft (6.0 m)
        3. Tube, Aluminum, Mill Finish: 3-1/16 in (78 mm) diameter 19.5 ft (5.94 m).

\*\* NOTE TO SPECIFIER \*\* System designed to be used with Tecno supports or Garbo supports. Tecno support awnings have a 13.12 ft (4 m) maximum width and a 8.20 ft (2.5 m) maximum projection. Garbo support awnings have a 16.40 ft (5 m) maximum width and a 8.20 ft (2.5 m) maximum projection.

* + 1. Basis of Design: Garbo I by Vertilux Limited.
       1. Designed to support smaller dimensions. Interior structure, makes stainless steel chain invisible. The design of profiles and parts provides security and aesthetics.
       2. Properties:

\*\* NOTE TO SPECIFIER \*\* Delete the manual or motorized operation paragraph not required.

* + - * 1. Manual Operation, Crossing Arms:

\*\* NOTE TO SPECIFIER \*\* Delete the projection and with options not required.

Projection: 49.21 in (1.25 m); Width: 65.75 in (1.67 m).

Projection: 59.06 in (1.50 m); Width: 75.59 in (1.92 m).

Projection: 68.90 in (1.75 m); Width: 85.43 in (2.17 m).

Projection: 78.74 in (2.00 m); Width: 95.28 in (2.42 m).

Projection: 88.58 in (2.25 m); Width: 105.90 in (2.69 m).

Projection: 98.42 in (2.50 m); Width: 114.96 in (2.92 m).

* + - * 1. Motorized Operation: Rolling Tube: 2-3/4 in (70 mm).

\*\* NOTE TO SPECIFIER \*\* Delete either of the two following paragraphs not required.

Awning Width up to 16.4 ft (5 m), Two Arms:

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

Projection: 59.06 in (1.50 m).

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m).

Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m)..

Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m)

Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m).

Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

With Techno Support: Maximum Rolling Tube Length: 8.20 ft (2.5 m).

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

Projection: 78.74 in (2 m); Width: 117.16 in (4.5 m). Rolling Tube 2-3/4 in (70 mm).

Projection: 98.43 (2.5 m); Width: 157.48 in (4 m). Rolling Tube 3-1/16 in (78 mm).

Components:

* + - * 1. Awning Cazorla plug kit 2-3/4 in (70 mm) white.
        2. SP terminal kit.
        3. Calypso support set white.
        4. Garbo II arm kit.
        5. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m).
        6. Cazorla plus profile 2-3/4 in (70 mm), white.
        7. Transmission support.
        8. Techno support kit with SP terminal white.
        9. Techno support kit.

\*\* NOTE TO SPECIFIER \*\* Designed to be used with 2, 3 or 4 arms. With 2 arms, awnings have a 19.7 ft (6 m) maximum width and a 11.5 ft (3.5 m) maximum projection. With 3 or 4 arms, awnings have a 23 ft (7 m) maximum width and a 11.5 ft (3.5 m) maximum projection.

* + 1. Basis of Design: Monobloc by Vertilux Limited.
       1. Monobloc system enables the user to adjust the distance between the arms by sliding their supports along the bar. This system is assembled with Garbo arms over a 1-9/16 x 1-9/16 x 1/8 in (40 x 40 x 3 mm) aluminum square bar and can have a wall or ceiling fixation.
       2. Properties:

\*\* NOTE TO SPECIFIER \*\* Delete manual and motorized options not required.

* + - * 1. Manual Operation; Two Arms, Crossing:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 49.21 in (1.25 m); Width: (1.09 m).

Projection: 59.06 in (1.50 m); Width: (1.21 m).

Projection: 68.90 in (1.75 m); Width: (1.34 m).

Projection: 78.74 in (2.00 m); Width: (1.47 m).

Projection: 88.58 in (2.25 m); Width: (1.61 m).

Projection: 98.42 in (2.50 m); Width: (1.73 m).

Projection: 108.27 in (2.75 m); Width: (1.86 m).

Projection: 118.11 in (3.00 m); Width: (1.98 m).

* + - * 1. Manual Operation; Two Arms, Non-Crossing:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: (2.05 m).

Projection: 68.90 in (1.75 m); Width: (2.30 m).

Projection: 78.74 in (2.00 m); Width: (2.55 m).

Projection: 88.58 in (2.25 m); Width: (2.82 m).

Projection: 98.42 in (2.50 m); Width: (3.05 m).

Projection: 108.27 in (2.75 m); Width: (3.30 m).

Projection: 118.11 in (3.00 m); Width: (3.55 m).

Projection: 127.95 in (3.25 m); Width: (3.80 m).

* + - * 1. Manual Operation; Three Arms, Non-Crossing:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: 118.11 in (3.00 m).

Projection: 68.90 in (1.75 m); Width: (3.38 m).

Projection: 78.74 in (2.00 m); Width: (3.75 m).

Projection: 88.58 in (2.25 m); Width: (4.16 m).

Projection: 98.42 in (2.50 m); Width: (4.50 m).

Projection: 108.27 in (2.75 m); Width: (4.88 m).

Projection: 118.11 in (3.00 m); Width: (5.25 m).

Projection: 127.95 in (3.25 m); Width: (5.63 m).

* + - * 1. Manual Operation; Four Arms, Non-Crossing.

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 59.06 in (1.50 m); Width: (3.96 m).

Projection: 68.90 in (1.75 m); Width: (4.46 m).

Projection: 78.74 in (2.00 m); Width: (4.96 m).

Projection: 88.58 in (2.25 m); Width: (5.50 m).

Projection: 98.42 in (2.50 m); Width: (5.96 m).

Projection: 108.27 in (2.75 m); Width: (6.46 m).

Projection: 118.11 in (3.00 m); Width: (6.96 m).

Projection: 127.95 in (3.25 m); Width: (7.46 m).

* + - * 1. Motorized Operation: Rolling Tube: 2-3/4 in (70 mm).

Awning Width up to 19.68 ft (6 m), Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power output options not required.

Projection: 59.06 in (1.50 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 127.95 in (3.25 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

* + - * 1. Motorized Operation: Rolling Tube: (78 mm)

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

Awning Width up to 19.68 ft (6 m), Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power output options not required.

Projection: 59.06 in (1.50 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power Output: 442.54 in-lbs (50 Nm) at 17 rpm.

Projection: 127.95 in (3.25 m); Power Output: 442.54 in-lbs (50 Nm) at 17 rpm.

Awning Width up to 26.25 ft (8 m), Three Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power and output options not required.

Projection: 59.06 in (1.50 m); Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power Output: 486.79 in-lbs (55 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 127.95 in (3.25 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Awning Width up to 39.37 ft (12 m), Four Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power and output options not required.

Projection: 59.06 in (1.50 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power Output: 619.55 in-lbs (70 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power Output: 752.31 in-lbs (85 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power Output: 885.07 in-lbs (100 Nm) at 12 rpm.

Projection: 127.95 in (3.25 m); Power Output: 885.07 in-lbs (100 Nm) at 12 rpm.

* + - 1. Components:
         1. Awning Cazorla plug kit 2-3/4 in (70 mm) white.
         2. Plug: 1-9/16 x 1-9/16 in (40 x 40 mm).
         3. SP terminal kit.
         4. Articulated arm kit.
         5. Cazorla plus profile 2-3/4 in (70 mm), white.
         6. Monobloc machine and point kit.
         7. Monobloc frontal supports kit.
         8. Frontal ceiling supports kit.
         9. Monobloc intermediate support.
         10. Awning monobloc arm support SP Lacquered, white.
         11. Profile: 1-9/16 x 1-9/16 in (40 x 40 x 3 mm).

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

* + - * 1. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m).
        2. Tube, Galvanized: 3-1/16 in (78 mm) diameter 19.7 ft (6.0 m).
        3. Tube, Aluminum, Mill Finish: 3-1/16 in (78 mm) diameter 19.5 ft (5.94 m).

\*\* NOTE TO SPECIFIER \*\* Magnum can support a 23 ft (7 m) maximum width and a 14.75 ft (4.5 m) maximum projection with its 2 robust arms and supports, which have been certified by the European standard EN-13561.

* + 1. Basis of Design: Magnum by Vertilux Limited.
       1. Designed to support larger areas of coverage that do not need support points. The distance between the arms is adjustable by sliding their supports along the bar.
       2. Properties:

\*\* NOTE TO SPECIFIER \*\* Delete either manual or motorized operation paragraph.

* + - * 1. Manual Operation:

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

Projection: 137.79 in (3.50 m).

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

Two Arms: (4150 mm).

Three Arms: (6100 mm).

Four Arms: (8050 mm).

Projection: 147.64 in (3.75 m).

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

Two Arms: (4390 mm).

Three Arms: (6460 mm).

Four Arms: (8530 mm).

Projection: 157.48 in (4.00 m).

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

Two Arms: (4630 mm).

Three Arms: (6820 mm).

Four Arms: (9100 mm).

Projection: 167.32 in (4.25 m)

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

Two Arms: (4870 mm).

Three Arms: (7150 mm).

Four Arms: (949o mm).

Projection: 177.16 in (4.50 m)

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

Two Arms: (5110 mm).

Three Arms: (7540 mm).

Four Arms: (9970 mm).

* + - * 1. Motorized Operation:

Projection: 137.79 to 177.16 in (3.50 to 4.5 m).

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

Two Arms: One motor; 708.05 in-lbs (80 Nm).

Three Arms: One motor; 1062.09 in-lbs(120 Nm).

Four Arms: Two motors 708.05 in-lbs (80 Nm) synchronized.

Five Arms: Two motors 885.07 in-lbs (100 Nm) synchronized.

Six Arms: Two motors 1062.09 in-lbs (120 Nm) synchronized.

* + - 1. Components:
         1. Front bar cap profile.
         2. Load profile.
         3. Arm support profile.
         4. Arm kit.
         5. Frontal-ceiling supports.
         6. Rolling tube support kit.
         7. Intermediate support.
         8. Frontal ceiling supports kit.
         9. Profile: 1-9/16 x 1-9/16 x 1/8 in (40 x 40 x 3 mm).

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

* + - * 1. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m).
        2. Tube, Galvanized: 3-1/16 in (78 mm) diameter 19.7 ft (6.0 m).
        3. Tube, Aluminum, Mill Finish: 3-1/16 in (78 mm) diameter 19.5 ft (5.94 m).
    1. Basis of Design: Cassette T-V by Vertilux Limited.
       1. Designed to protect the awning and prolong its durability. When the cassette is closed, both the canvas and the arms remain hidden. Composed of two profiles, making assembly simple and compact.
       2. Manufactured following European norms of quality and quality control.
       3. Standards compliance: EN 13561.
       4. Properties:
          1. Maximum Width: 196.85 in (5 m); Maximum Projection: 78.74 in (2 m).
          2. Maximum Projection: 98.43 in (2.5 m); Maximum Width: 157.48 in (4 m).
          3. Awning Inclination, Wall Installation: 5 to 70 degrees.
          4. Awning Inclination, Ceiling Installation: 30 to 80 degrees.
          5. Manual Operation; Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 49.21 in (1.25 m); Width: 67.72 in (1.72 m).

Projection: 59.06 in (1.50 m); Width: 77.56 in (1.97 m).

Projection: 68.90 in (1.75 m); Width: 87.40 in (2.22 m).

Projection: 78.74 in (2.00 m); Width: 97.24 in (2.47 m).

Projection: 88.58 in (2.25 m); Width: 17.87 in (2.74 m).

Projection: 98.42 in (2.50 m); Width: 116.93 in (2.97 m).

* + - 1. Components:
         1. Garbo II arm kit
         2. Cassette T-V accessory kit
         3. Cassette T-V profile
         4. Tube, galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m)
    1. Basis of Design: Cassette T-VI by Vertilux Limited.
       1. Designed to support larger dimensions. Assembled with Garbo arms ensuring the tenseness of the canvas in every position of the awning.
       2. Can be used with a 196.85 in (5 m) maximum width and a 118.11 in (3 m) maximum projection.
       3. Manufactured following European norms of quality and quality control.
       4. Standards compliance: EN 13561.
       5. Properties:
          1. Maximum Width: 196.85 in (5 m)
          2. Maximum Projection: 118.11 in (3 m)
          3. Awning Inclination, Wall Installation: 5 to 70 degrees.
          4. Awning Inclination, Ceiling Installation: 15 to 80 degrees.

\*\* NOTE TO SPECIFIER \*\* Delete either the manual or motorized operation paragraph.

* + - * 1. Manual Operation; Two Arms.:

\*\* NOTE TO SPECIFIER \*\* Delete projection and width options not required.

Projection: 49.21 in (1.25 m); Width: 68.90 in (1.75 m).

Projection: 59.06 in (1.50 m); Width: 78.74 in (2.00 m).

Projection: 68.90 in (1.75 m); Width: 88.58 in (2.25 m).

Projection: 78.74 in (2.00 m); Width: 98.42 in (2.50 m).

Projection: 88.58 in (2.25 m); Width: 109.06 in (2.77 m).

Projection: 98.42 in (2.50 m); Width: 118.11 in (3.00 m).

Projection: 108.27 in (2.75 m); Width: 127.95 in (3.25 m)

Projection: 118.11 in (3.00 m); Width: 137.80 in (3.50 m).

* + - * 1. Motorized Operation: Two Arms; Width up to 196.85 in (5 m).

\*\* NOTE TO SPECIFIER \*\* Delete projection and power output options not required.

Projection: 59.06 in (1.50 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power Output: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power Output: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power Output: 354.03 in-lbs (40 Nm) at 17 rpm.

* + - 1. Components:
         1. Articulated arm kit
         2. Cassette T-VI accessory kit.
         3. Cassette T-VI profile.
         4. Tube, Galvanized: 2-3/4 in (70 mm) diameter.
    1. Basis of Design: Semicofre by Vertilux Limited.
       1. System is designed to protect the canvas in the articulated arm, stor and straight arm models.
       2. Properties:
          1. Articulated Arm Model: Maximum Width: 196.85 in (5 m).

Roller Tube: 2-3/4 in (70 mm) diameter, Maximum Projection: 98.43 in (2.5 m).

Roller Tube: 2-3/8 in (60 mm) diameter; Maximum Projection: 118.11 in (3.0 m).

* + - * 1. Straight Arm Model: With the stor and straight arm models, it is possible to adapt to larger dimensions than with the articulated arm model, due to an easy installation assembling system and the possibility to install more than two arm supports.

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

* + - * 1. Motorized Operation: Maximum Width: 196.85 in (5 m): Roller Tube 2-3/4 in (70 mm) diameter.

Article Arm Model: Two Arms:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power options not required.

Projection: (1.00 m); Power: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 59.06 in (1.50 m); Power: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 68.90 in (1.75 m); Power: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 78.74 in (2.00 m); Power: 265.52 in-lbs (30 Nm) at 17 rpm.

Projection: 88.58 in (2.25 m); Power: 309.78 in-lbs (35 Nm) at 17 rpm.

Projection: 98.42 in (2.50 m); Power: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 108.27 in (2.75 m); Power: 354.03 in-lbs (40 Nm) at 17 rpm.

Projection: 118.11 in (3.00 m); Power: 354.03 in-lbs (40 Nm) at 17 rpm.

* + - * 1. Motorized Operation; Maximum Width: 196.85 in (5 m): roller Tube 2-3/4 in (70 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete tension arm model not required.

Tension Arm Model: Two Arms: Maximum Width: 275.59 in (7 m):

\*\* NOTE TO SPECIFIER \*\* Delete projection and power option not required.

Projection: (0.80 m); Power: (15 Nm) at 17 rpm.

Projection: (1.00 m); Power: (15 Nm) at 17 rpm.

Projection: (1.40 m); Power: (15 Nm) at 17 rpm.

Tension Arm Model: Three Arms: Maximum Width: (7 m):

\*\* NOTE TO SPECIFIER \*\* Delete projection and power option not required.

Projection: (0.80 m); Power: (15 Nm) at 17 rpm.

Projection: (1.00 m); Power: (15 Nm) at 17 rpm.

Projection: (1.40 m); Power: (15 Nm) at 17 rpm.

Tension Arm Model: Four Arms: Maximum Width: (7 m):

\*\* NOTE TO SPECIFIER \*\* Delete projection and power option not required.

Projection: (0.80 m); Power: (25 Nm) at 17 rpm.

Projection: (1.00 m); Power: (25 Nm) at 17 rpm.

Projection: (1.40 m); Power: (25 Nm) at 17 rpm.

* + - * 1. Motorized Operation; Maximum Width: (6 m): Roller Tube 2-3/4 in (70 mm) diameter.

Elbowed Arm Model:

\*\* NOTE TO SPECIFIER \*\* Delete projection and power option not required.

Projection: (0.80 m): Power Output: (10 Nm) at 17 rpm

Projection: (1.20 m): Power Output: (10 Nm) at 17 rpm

Projection: (1.60 m): Power Output: (10 Nm) at 17 rpm

* + - 1. Components:
         1. Awning Cazorla plug kit 2-3/4 in (70 mm) white.
         2. Calypso support set white.
         3. Cazorla plus profile 2-3/4 in (70 mm), white.
         4. Techno support kit with SP terminal white.
         5. Semibox caps kit.
         6. Semibox support kit.
         7. Semibox profile kit.

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

* + - * 1. Tube, Galvanized: 2-3/4 in (70 mm) diameter 19.7 ft (6.0 m).
        2. Tube, Galvanized: 2-3/8 in (60 mm) diameter 19.7 ft (6.0 m).
    1. Basis of Design: Cassette 10 by Vertilux Limited.
       1. System to protect awning and prolong its durability. When the cassette is closed, both canvas and arms remain hidden.
       2. Standards Compliance: Fulfills the norm EN 13561-A1 regarding wind resistance and durability.
       3. Inclination: 0 to 60 degrees for both wall and ceiling mount.

Delete arm system option not require.

* + - 1. Two Arm Systems: Width: 216.53 in (5.5 m) maximum; Projection: 127.95 in (3.25 m) maximum.
      2. Three Arm Systems: Width: 275.59 in (7.0 m) maximum; Projection: 127.95 in (3. 25 m) maximum.
      3. Components:
         1. Articulated arm kit.
         2. Cassette 10 box 3 profiles set, 7 Mt.
         3. Cassette 10 frontal support set white.
         4. Cassette 10 intermediate support.
         5. Ceiling cassette box 10 accessory set.
    1. Basis of Design: Front Shadow by Vertilux Limited.
       1. Awning front bar front shadow.
       2. Awning load bar front shadow.
       3. Awning accessory kit front shadow.

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

* 1. BALCONY SYSTEMS
     1. Balcony Systems are designed to provide protection from UV rays, wind and rain. These systems are installed to the ceiling of balconies and can be used for applications such as retractable awnings and drop shades.

\*\* NOTE TO SPECIFIER \*\* Delete basis of design option not required.

* + 1. Basis of Design: Sunlux Balcony systems by Vertilux Limited. Composed of heavy-duty springs, which hold the awning in an open position, making it wind and rain resistant.
       1. Properties:
          1. Maximum Width: 19 ft (5.79 m).
          2. Maximum Height: 14 ft (4.277 m).
          3. Maximum Weight: 70 to 110 lbs (31.75 to 49.89 kg).
          4. Operation: Manual crank.
       2. Components:
          1. Brace: 19.68 in (500 mm).
          2. Straight profile PU 5 Mt white.
          3. Endcap right for profile PUS.
          4. Endcap left for profile PUS.
          5. Balcony fixing bracket white.
          6. Universal wall adapter white.
          7. Bolt plate 4 holes.
          8. Hinging hook with screws.
          9. Awning Stor Wall support white.

Control screw set M6.

Plastic insert tube.

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

* + - * 1. Tube: 2-3/8 in (60 mm) diameter, galvanized grooved.
        2. Tube: 2-3/4 in (70 mm) diameter, galvanized, 19.7 ft (6.0 m) long.
        3. Tube: 3-1/16 in (78 mm) diameter, galvanized,19.7 ft (6.0 m) long.
        4. Tube: 3-1/16 in (78 mm) diameter, aluminum, mill finished, 19.5 ft (5.94 m) long.

\*\* NOTE TO SPECIFIER \*\* Deklete nylone end optin not required.

* + - * 1. Nylon End Round Tip: 2-3/4 in (70 mm).
        2. Nylon End Round Tip: 3-1/16 in (78 mm).

\*\* NOTE TO SPECIFIER \*\* Delete if system is to be motorized.

* + - * 1. Manual Operation:

Manual System Control.

M6 Screws For Gear.

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

Nylon End Square: 2-3/4 in (70 mm).

Nylon End Square: 3-1/16 in (78 mm).

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

Handle: 47.24 in (1200 mm).

Handle: 55.12 in (1400 mm).

Handle: 70.87 in (1800 mm).

Handle: 78.74 in (2000 mm)

Handle: 94.49 in (2400 mm).

* + 1. Basis of Design: Minicofre Balcony systems by Vertilux Limited.
       1. System designed to protect the canvas; mainly for awnings installed on windows and facades. System can be assembled with stor arms and stainless-steel screws.
       2. Installs to wall or ceiling.
       3. Properties:
          1. Rolling Tube: 2-3/4 in (70 mm) diameter.
          2. Maximum Canvas Width: 157.48 in (4 m).
          3. Projection: 55.11 in (1.4 m).
          4. Motorized Operation:

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

Rolling Tube: 2 in (50 mm); Power Output: 88.51 in-lbs (10 Nm) at 17 rpm.

Rolling Tube: 2-3/8 in (60 mm); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Rolling Tube: 2-3/4 in (70 mm); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

* + - 1. Components:
         1. Minicassette profile kit.
         2. Minicassette machine caps kit.
         3. Frontal-ceiling Minicofre support kit.
         4. Elbowed arm with tension kit.
    1. Basis of Design: Elbowed Arm Balcony Systems by Vertilux Limited.
       1. For awnings installed on balconies, facades, and windows. Arms have an incorporated tension system consisting of galvanized steel springs with rectified compressing coil and a stainless-steel chain.
       2. Motorized Properties:

\*\* NOTE TO SPECIFIER \*\* Delete arms paragraph not required.

* + - * 1. Elbowed Arms: Rolling Tube: 2-3/4 in (70 mm) diameter.

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

Projection: 31.50 in (0.8 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 88.51 in-lbs 10 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Projection: 47.24 in (1.20 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 88.51 in-lbs (10 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Projection: 63 in (1.60 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 88.51 in-lbs (10 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

* + - * 1. Arms with tension: Rolling Tube: 2-3/4 in (70 mm) diameter.

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

Projection: 31.50 in (0.8 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 221.27 in (25 Nm) at 17 rpm.

Projection: 39.37 in (1.00 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 221.27 in (25 Nm) at 17 rpm.

Projection: 55.12 in (1.40 m).

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

Two Arms Width: 236.22 in (6 m); Power Output: 132.76 in-lbs (15 Nm) at 17 rpm.

Four Arms Width: 472.44 in (12 m); Power Output: 221.27 in (25 Nm) at 17 rpm.

* + - 1. Components:
         1. Supports kit.
         2. Double axis support kit.
         3. Transmission support.
         4. Among wall front plate kit.
         5. Cartridge with tension kit.
         6. Manual system control, 1.7.

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

* + - * 1. Elbowed arm kit.
        2. Elbowed arm with tension kit.
        3. Elbowed upper terminal.
        4. Straight arm profile.
        5. Straight arm lower terminal.

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

* 1. DROP SHADE SYSTEM
     1. Basis of Design: Atos Drop Shade Systems by Vertilux Limited.
        1. Oversized roller shade for large spaces for both exteriors and interiors. Can be used in a drop shade, balcony, window or awning. Can be installed with cable or rod guidance options and crank or motor operation systems.
        2. Properties:
           1. Width: 16.5 ft (5 m) maximum.
           2. Height: 14 ft (4.27 m) maximum.
           3. Weight: 70 to 110 lbs (31.75 to 49.90 kg) maximum.

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

* + - * 1. Tube: 2-3/8 in (60 mm) diameter.
        2. Tube: 2-3/4 in (70 mm) diameter.
        3. Tube: 3-1/16 in (78 mm) diameter.

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

* + - * 1. Operation: Manual, crank mechanism.
        2. Operation: Motorized.
      1. Components:
         1. Bracket Set
         2. End plug: Cable guide.
         3. End plug: Stainless steel rod guide.
         4. End plug with Block: Stainless steel rod guide.
         5. Bottom Rail: 19.8 ft (6 m).
         6. Cable: Stainless steel with screw and connector 13.1 ft (4.0 m).
         7. Universal mounting brackets for cable and rod.
         8. Double universal mounting brackets cable and rod.
         9. Niche brackets.
         10. Stainless steel rod tightener.
         11. Plate with pin and splint guide.
         12. Plate with extractable pin.

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

* + - * 1. Tube: 2-3/8 in (60 mm) diameter, galvanized grooved.
        2. Tube: 2-3/4 in (70 mm) diameter, galvanized, 16.4 ft (5 m).
        3. Tube: 2-3/4 in (70 mm) diameter, galvanized, 19.7 ft (6 m).
        4. Tube: 2-3/4 in (70 mm) diameter, galvanized, 22.97 ft (7 m).
        5. Tube: 3-1/16 in (78 mm) diameter, galvanized, 19.7 ft (6 m).
        6. Tube: 3-1/16 in (78 mm) diameter, aluminum, mill finish, 19.5 ft (5.94 m).
        7. Bottom Rail Tube: 1-9/16 in (40 mm) diameter, galvanized.

\*\* NOTE TO SPECIFIER \*\* Delete guided stainless steel rod options not required.

* + - * 1. Guided Stainless steel rod 3/8 in (9.5 mm) diameter, 12 ft (3.66 m) long.
        2. Guided Stainless steel rod 3/8 in (9.5 mm) diameter, inside thread, 12 ft (3.66 m) long.
        3. Guided Stainless steel rod 3/8 in (9.5 mm) diameter, outside thread, 12 ft (3.66 m) long.

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

* + - * 1. Nylon End, Round: 2-3/4 in (70 mm).
        2. Nylon End, Round: 3-1/16 in (78 mm).
        3. Nylon End, with Hole 0.55 in (14 mm) Diameter: 2-3/8 in (60 mm).
        4. Nylon End, with hole 0.55 in (14 mm) Diameter: 2-3/4 in (70 mm).
        5. Nylon End, with Hole 0.55 in (14 mm) Diameter: 3-1/16 in (78 mm).
        6. Plastic Insert Tube.
        7. Intermediate Support.
        8. Ball Bearing Ext. Support Bracket.

\*\* NOTE TO SPECIFIER \*\* Delete if operation is to be motorized.

* + - * 1. Manual Operation System:

\*\* NOTE TO SPECIFIER \*\* Del;ete manual system control not required.

Manual System Control.

Manual System Control 1:3.

M6 Screws For Gear.

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

Nylon End, Square: 2-3/8 in (60 mm).

Nylon End, Square: 2-3/4 in (70 mm).

Nylon End, Square: 3-1/16 in (78 mm).

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

Handle: 47.24 in (1200 mm).

Handle: 55.12 in (1400 mm).

Handle: 70.87 in (1800 mm).

Handle: 78.74 in (2000 mm).

Handle: 94.49 in (2400 mm).

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

* 1. WINDOW SYSTEM
     1. Basis of Design: Window Systems by Vertilux Limited.
        1. Designed to provide great protection from UV rays. Composed of a roller shade with arms fixed to the wall. Only works with a crank operation system.
        2. Maximum Awning Width: 19 ft (5.79 m).
        3. Properties:
           1. Width: 19 ft (5.79 m) maximum.
           2. Height: 14 ft (4.27 m) maximum.
           3. Weight: 70 to 110 lbs (31.75 to 49.89 kg) maximum.

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

* + - * 1. Tube: 2-3/8 in (60 mm) diameter.
        2. Tube: 2-3/4 in (70 mm) diameter.
        3. Tube: 3-1/16 in (78 mm) diameter.
        4. Operation: Manual, crank mechanism.
      1. Components:
         1. Straight profile PU 5 Mt white.
         2. Endcap right for profile PUS.
         3. Endcap left for profile PUS.

\*\* NOTE TO SPECIFIER \*\* Delete spring loaded curved arm options not required.

* + - * 1. Spring loaded curved arm exterior window 31-1/5 in (800 mm).
        2. Spring loaded curved arm exterior window 39-3/8 in (1000 mm).
        3. Spring loaded curved arm exterior window 47-1/4 in (1200 mm).
        4. Spring loaded curved arm exterior window 55-1/8 in (1400 mm).

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

* + - * 1. Tube: 2-3/8 in (60 mm) galvanized grooved tube.
        2. Tube: 2-3/4 in (70 mm) galvanized tube, 19.7 ft (6005 mm).
        3. Tube: 3-1/16 in (78 mm) galvanized tube, 19.7 ft (6005 mm).
        4. Tube: 3-1/16 in (78 mm) aluminum tube, mill finish, 19.5 ft (5944 mm).

\*\* NOTE TO SPECIFIER \*\* Delete nylon end options no required.

* + - * 1. Nylon End, Round: 2-3/8 in (60 mm).
        2. Nylon End, Round: 2-3/4 in (70 mm).
        3. Nylon End, Round: 3-1/16 in (78 mm).
        4. Nylon End, with Hole 0.55 in (14 mm) Diameter: 2-3/8 in (60 mm).
        5. Nylon End, with hole 0.55 in (14 mm) Diameter: 2-3/4 in (70 mm).
        6. Nylon End, with Hole 0.55 in (14 mm) Diameter: 3-1/16 in (78 mm).
        7. Nylon End, Square: 2-3/8 in (60 mm).
        8. Nylon End, Square: 2-3/4 in (70 mm).
        9. Nylon End, Square: 3-1/16 in (78 mm).

\*\* NOTE TO SPECIFIER \*\* Delete manual system control option not required.

* + - * 1. Manual system control.
        2. Manual system control 1:3 ratio.
        3. M6 screws for gear.

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

* + - * 1. Handle: 47.24 in (1200 mm).
        2. Handle: 55.12 in (1400 mm).
        3. Handle: 70.87 in (1800 mm).
        4. Handle: 94.49 in (2400 mm).

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

* + - * 1. Wall/ceiling mounting brackets.
        2. Wall/ceiling mounting brackets.
        3. Wall/ceiling mounting bracket w inserts and pin.
        4. Plastic insert tube.
        5. Intermediate support.

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

* 1. DUPLEX SYSTEM
     1. Basis of Design: Duplex Systems by Vertilux Limited.
        1. Dual awning system useful on terraces and places with few support points. The system's header board allows two awnings to be unfolded with an articulated arm, rolling both canvases on the same tube with a single device, achieving an effective and optimized mechanism.
           1. Width: 196.85 in (5 m) maximum.
           2. Projection: 108.27 in (2.75 m) maximum each side.
           3. Dual System Structure: Iron tubing; 3.15 x 1.57 x 0.08 in (80 x 40 x 2 mm).
        2. Properties:
           1. Manual Operation:

\*\* NOTE TO SPECIFIER \*\* Delete the projection / width options not required.

Projection: 59.06 in (1.50 m). Width: 75.59 in (1.92 m) minimum.

Projection: 68.90 in (1.75 m). Width: 85.43 in (2.17 m) minimum.

Projection: 78.74 in (2.00 m). Width: 95.28 in (2.42 m) minimum.

Projection: 88.58 in (2.25 m). Width: 105.91 in (2.69 m) minimum.

Projection: 98.43 in (2.50 m). Width: 115.75 in (2.94 m) minimum.

Projection: 108.27 in (2.75 m). Width: 125.59 in (3.19 m) minimum.

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

* + - * 1. Motorized Operation:

\*\* NOTE TO SPECIFIER \*\* Delete projection / width options not required.

Projection: 59.06 in (1.50 m). Width: 73.62 in (1.87 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 486.79 in-lbs (55 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Projection: 68.90 in (1.75 m). Width: 83.46 in (2.12 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 486.79 in-lbs (55 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Projection: 78.74 in (2.00 m). Width: 93.31 in (2.37 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 486.79 in-lbs (55 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Projection: 88.58 in (2.25 m). Width: 103.94 in (2.64 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 708.06 in-lbs (80 Nm) 17 rpm.

Projection: 98.43 in (2.50 m). Width: 113.78 (2.89 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 708.06 in-lbs (80 Nm) 17 rpm.

Projection: 108.27 in (2.75 m). Width: 123.62 in (3.14 m) minimum.

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

Roller Tube: 2.75 in (70 mm); Power: 619.55 in-lbs (70 Nm) 17 rpm.

Roller Tube: 3.06 in (78 mm); Power: 796.57 in-lbs (90 Nm) 17 rpm.

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

* 1. DOME AWNING
     1. Basis of Design: Dome Awning Systems by Vertilux Limited.
        1. Decorative system, used mainly for windows.
           1. System Arms: Extruded aluminum profiles.
           2. Toggles and Accessories: Polyamide and glass fiber.
           3. Arcs: 2, 3, 4, or 5.
           4. Width: 147.64 in (3.75 m) maximum.
           5. Projection: 70.87 in (1.8 m) maximum.
        2. Components:
           1. Bent joint white.
           2. Frontal fast cape support white.
           3. Ceiling fast cape support.
           4. Among wall fast cape support.
           5. Rubber cape not lacquered.
           6. 90 degree fixed toggle white.
           7. Fixed side plaque white.
           8. Fast cape profile 6 Mt white.
           9. Plate, 1 x 0.157 in (25 x 4 mm), 6 Mt white.

\*\* NOTE TO SPECIFIER \*\* delete fast cape fillet options not required.

* + - * 1. Fast cape fillet grey.
        2. Fast cape fillet white.
        3. Fast cape fillet beige.

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

* 1. DROP WALL
     1. Basis of Design: Dome Awning Systems by Vertilux Limited.
        1. System compliments freestanding awnings by acting as an enclosure, which has all the benefits of a vertical awning. Composed of U-shaped guide-profile and a load profile with a bolt. The guide-profile has a dust cover ribbon to avoid any friction between both profiles. Can also be assembled with an intermediate profile that gives it rigidity.
        2. Components:
           1. Awning cut wind funnels kit white.
           2. Awning dust cover ribbon not lacquered.
           3. Awning Inox cut wind Lock not lacquered.
           4. Awning polyamide cut wind deadline not lacquered.
           5. Awning cut wind intermediate profile 6.00 MT white.
           6. Awning cut wind load profile 6.00 MT white.
           7. Awning counterweight front bar 6.00 MT not lacquered.
           8. Awning Cazorla plus profile 2.75 in (70 mm) 5.00 MT white.
           9. Awning cut wind guide profile 6.00 MT white.

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

* 1. ACCESSORlES
     1. Components:

\*\* NOTE TO SPECIFIER: Delete accessory components not required.

* + - 1. Straight profile PU 5 Mt white.
      2. Long gear box valve holder, 3.35 in (85 mm).
      3. Point with axis nylon valve holder 3.35 in (85 mm).
      4. Awning Small Roof Taps Kit, 10-5/8 in (270 mm) white.
      5. Awning magnum telescopic support bar white.
      6. Awning short gear box valve holder 3.15 in (80 mm) not lacquered.
      7. Awning point without axis nylon valve holder 2.75 in (70 mm).
      8. Awning point without axis nylon valve holder 3.15 in (80 mm).
      9. Awning short gear box valve holder 2.75 in (70 mm) not lacquered.
      10. Awning gear box Siplan 1.11 in (28 mm) long crochet white.
      11. Awning gear box Siplan 1.7 in (43 mm) threaded white.
      12. Awning hand crank model Roma 1 to 2.5 MT white.
      13. Iron rolling tube 2.75 in (70 mm) diameter, 5 to 7 Mt, not lacquered.
      14. Iron rolling tube 3.35 in (85 mm) diameter.
      15. Iron rolling tube 3.15 in (80 mm) diameter 5 to 7 Mt, not lacquered.
      16. Iron rolling tube 3.35 x 0.047 in (85 x 1.2 mm) 7 Mt, not lacquered.
      17. Aluminum roof 10-5/8 in (270 mm) 5 to 7 Mt white.
      18. Awning aluminum Roof 10-5/8 in (270 mm) 6 Mt white.
      19. Awning roof square 10-5/8 in (270 mm) white.
      20. Awning roof joint strip not lacquered.

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

* 1. MOTORIZATION
     1. Certified for sale in the USA by TUV Rheinland of North America, as a Nationally Recognized Testing Laboratory (NRTL) by OSHA and SCC.

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

* + 1. Celtic I RF Motor: 6-700-VM-45R20.
       1. Diameter: 1.77 in (45 mm).
       2. Length: 2.29 ft (698 mm).
       3. Weight: 6.13 lbs (2.78 kg).
       4. Power: 120 Vac, 60 Hz, 2.20 A.
       5. Watts: 235.
       6. Torque: 177 in-lbs (20 Nm).
       7. Control: Radio.
       8. Performance:
          1. Lift Capacity on 3 in (76 mm) Tube: 117.3 lbs (53.21 kg).
          2. Run Time: 4 to 6 minutes.
          3. Turns Maximum: 22.
          4. Peak Noise: 42 dB.
          5. Speed: 32 rpm.
          6. Limit Setting: Mechanical.
    2. Celtic II RF Motor, Electronic: 6-700-CM-45E20.
       1. Diameter: 1.78 in (45 mm).
       2. Length: 1.92 ft (585 mm).
       3. Weight: 5.18 lbs (2.35 kg).
       4. Power: 120 Vac, 50/60 Hz, 2.20 A.
       5. Watts: 250.
       6. Torque: 177 in-lbs (20 Nm).
       7. Control: Radio/Electronic.
       8. Performance:
          1. Lift Capacity on 3 in (76 mm) Tube: 117.3 lbs (53.21 kg).
          2. Run Time: 4 to 6 minutes.
          3. Turns Maximum: No limit.
          4. Peak Noise: 47 dB.
          5. Speed: 33 rpm.
          6. Limit Setting: Electronic.
    3. Celtic II RF Motor: 6-700-CM-45R20.
       1. Diameter: 1.78 in (45 mm).
       2. Length: 2.33 ft (710 mm).
       3. Weight: 5.66 lbs (2.57 kg).
       4. Power: 120 Vac, 50/60 Hz, 2.20 A.
       5. Watts: 250.
       6. Torque: 177 in-lbs (20 Nm).
       7. Control: Radio.
       8. Performance:
          1. Lift Capacity on 3 in (76 mm) Tube: 117.3 lbs (53.21 kg).
          2. Run Time: 4 to 6 minutes.
          3. Turns Maximum: 50.
          4. Peak Noise: 47 dB.
          5. Speed: 33 rpm.
          6. Limit Setting: Mechanical.

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

* 1. FABRICS

\*\* NOTE TO SPECIFIER \*\* The Sunlux line products have sufficiently passed every test for exterior applications; tensile strength, tensile elongation, flexural strength and abrasion resistance. These are important factors to consider as most of the outdoor systems will put the fabrics under a reasonable amount of tension. See manufacturer's detailed information for color selections.

* + 1. Fabrics: Sunlux Collection by Vertilux Limited.
       1. Acrylic fibers utilizing a mass dyeing and wet spinning process. The colored pigments saturate the polymer solution before the fiber is formed.
          1. Resistant to extreme weather conditions. Compliant with ISO 4920.
          2. Resistant to the effects of microorganisms.
          3. Resistant to wear and tear.
          4. Provides protection against UV radiation.
          5. UV solar protection.

\*\* NOTE TO SPECIFIER \*\* Fabric is applicable to the following applications: Canopies, chairs, drop arm awnings, fixed awnings, indoor upholstery, marine applications, outdoor upholstery, pergolas, retractable awnings, retractable canopies, umbrellas, veranda awnings, vertical awnings, and dropshades. Delete fabric types not required.

* + - 1. Plains:

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

* + - * 1. Color: \_\_\_\_\_\_.
        2. Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Fabric is applicable to the following applications: Canopies, chairs, drop arm awnings, fixed awnings, indoor upholstery, marine applications, outdoor upholstery, pergolas, retractable awnings, retractable canopies, umbrellas, veranda awnings, vertical awnings, and dropshades.

* + - 1. Classics:

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

* + - * 1. Color: \_\_\_\_\_\_.
        2. Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Fabric is applicable to the following applications: Canopies, chairs, drop arm awnings, fixed awnings, indoor upholstery, marine applications, outdoor upholstery, pergolas, retractable awnings, retractable canopies, umbrellas, veranda awnings, vertical awnings, and dropshades.

* + - 1. Stripes:

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

* + - * 1. Color: \_\_\_\_\_\_.
        2. Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Fabric is applicable to the following applications: Construction, drop arm awnings, fixed awnings, retractable awnings, truck canvas, veranda awnings, vertical awnings, and dropshades.

* + - 1. Monza:

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

* + - * 1. Color: \_\_\_\_\_\_.
        2. Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Fabric is applicable to the following applications: Bouncers, camping tents, canopies, capota camping, children play areas, grandstand canopies, industrial awnings, marquees, pagodas, rotulable awnings, printable Awnings, sail shades, and shade sails.

* + - 1. VIP-Fr:

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

* + - * 1. Color: \_\_\_\_\_\_.
        2. Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for the nautical sector and a variety of marine applications: Biminis, canopies, cockpit enclosures, windscreen covers and boat covers.

* + - 1. Sea Vision Fabric Collection: Made of high quality acrylic fibers, provide great resistance to UV radiation, have a high air permeability, possesses anti-mold properties and are easy to clean.

\*\* NOTE TO SPECIFIER \*\* Designed for nautical sector applications.Delete fabric type not required.

* + - * 1. Star: Masacril light weight acrylic fabric construction resistance to UV radiation, air permeable, water resistant, and anti-mold properties.

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for nautical sector applications.

* + - * 1. Port: Resistance to UV radiation, air permeable, water resistant, anti-mold properties, light weight, and easily maintained.

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

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

Color: determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for nautical sector and marine use applications. Accelerated ageing and weathering tests show no changes in color, aspect or delamination.

* + - * 1. Sea Vision Water Resistant:

Standards Compliance:

EN 1021.

Martindale's Abrasion Resistance: 100,000 cycles.

Antifungal.

Antibacterial.

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for nautical sector. Environmentally friendly.

* + - * 1. Sea Vision 365: Lead free, fire retardant, contains no DOP (plasticizer).

Odorless.

Antibacterial.

Anti fungal.

Recyclable: 100 percent

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for nautical sector.

* + - * 1. Sea Vison 350: High tenacity polyester core yarn and coated with lead-free PVC providing a stable fabric when exposed to environmental changes.

Flame retardant.

Antibacterial.

Tearing and fraying resistant.

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed for the marine sector.

* + - * 1. PSV 320: High tenacity polyester yarns coated with PVC providing stability and optimal performance.

Flame retardant.

Antifungal.

Antibacterial.

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* High end technical fabrics resistant to rigors of outdoor use. Excellent ressistance to color degradation. Fabrics are easily weldable and sewable. The PSV fabrics are phtalate free, making them ideal product for any project.

* + - 1. Polyscreen Vision Collection (PSV):
         1. Phthalate-free
         2. Formaldehyde-free,
         3. Lead-free
         4. BPA-free
         5. Color degradation resistant.
         6. Resistant to acids, alkalis or solvents making fabrics washable and easy to clean.
         7. Seams: Weldable and sewable.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades. Delete fabrics types not required.

* + - * 1. PSV Designer Collection:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV Ensenada:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV 650:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV 550:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV 550 Calico:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV 550 Crystal:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV 597:

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

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

Color: As determined by the Architect from manufacturer's selection.

\*\* NOTE TO SPECIFIER \*\* Designed primarily for dropshades.

* + - * 1. PSV Spice:

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

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

Color: As determined by the Architect from manufacturer's selection.

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.
   2. INSTALLATION
      1. Install in accordance with manufacturer's instructions and approved submittals. Install support brackets and with clearance sufficient to permit unencumbered operation of shade and hardware as recommended by manufacturer.
      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.
   3. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION