

SECTION SPECIFICATIONS 107313

Adjustable Louvered Roof Pergola Awnings Patio Covers and Pergola Awnings Section 107313 (10530)



SUNAIR AWNINGS & SOLAR SCREENS
P.O. Box 1068 7785 Rt. 175,
Jessup, MD 20794

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Specifications for Motorized Louvered Pergola by SUNAIR®:

PART 1 - GENERAL

1.1 RELATED SECTIONS:

- A. 107113 Exterior Sun Control Devices
- B. 107300 Protective Covers
- C. 133133 Framed Fabric Structures
- D. 107316 Canopies
- E. 133100 Fabric Structures

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract
- B. Fabricated engineered Structure / aluminum frame
- C. Motorized retractable covering system / motors and controls
- D. Fabric
- E. Accessories

1.3 SUMMARY:

- A. Section includes the motorized louvered metal structure, framed, metal louvers, motor, and automation.

1.4 SUBMITTALS

- A. **Product Data:** Manufacturers data sheet shall be submitted for each product specified including, finishes, dimensions, options and installation instructions.
- B. **Drawings and diagrams:** Product details, dimensions, installation details, working and assembly drawings. Design calculations shall be stamped and signed by a qualified professional engineer licensed in the state where the project is located.
- C. **Sample:** Contractor or agent shall supply sample of materials as required. Samples will include fabric samples (Screens) showing color and structure finish samples showing color, texture, and gloss.

1.5 DEFINITIONS

- A. Structure / Pergola width is measurement from outside end of guide to end of guide or outside of cassette housing to outside of cassette housing.**
- B. Structure Pergola Projection is measurement from wall to outside of pillar or outside cassette to outside cassette / posts at ground level.**
- C. Structure Post Height is under gutter measured from top of post under gutter to bottom of post foot plate bracket.**

1.6 DESIGN REQUIREMENTS

- A. Provide factory built prefabricated structures and shelters capable of withstanding the effects of loads and stresses within limits and under conditions indicated by local codes, the engineer certifying the design, and manufacturer.**

1.7 SCOPE / DESCRIPTION:

- A. Furnish and install a Pergola® awning(s) (*MODEL OPERA & VISION*) as manufactured by Pratic in Italy and distributed by Sunair Awnings & Solar screens, P.O Box 1068 Jessup, MD 20794 in accordance with the specifications below.**

1.8 QUALITY ASSURANCE

- A. Product shall be manufactured to meet or exceed the quality and standards of the Pergola® awnings as per description above.**
- B. Supplier shall be approved to supply the products specified and shall honor all claims and warranties as specified in accordance with manufacturers warranty.**
- C. Provide structures from one manufacturer for the entire project if possible.**

1.9 DELIVERY STORAGE AND HANDLING

- A. Delivered material shall match specifications and approved samples.**
- B. Product shall be delivered to site in manufacturer original packaging.**
- C. All products should be stored and handled to prevent damage to materials, finishes, and operating mechanism.**

1.10 WARRANTY

- A. Supplier shall honor manufacturers product warranty from date of installation (See specific warranty detail available from Sunair Awnings & Solar Screens).

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Basis of design compliant with requirements provided by: Sunair Awnings and Solar Screens (Awnings Unlimited Inc) P.O Box 1068, 7785 Rt. 175, Jessup, MD 20794. 800-548-0408.
www.sunairawnings.com
- B. Substitutions: Substitutions not permitted. Any substitutions must be submitted for approval 30 days prior to close of bid.
- C. Product descriptions and types. Pergola® is a custom made motorized adjustable metal louvered structure in which the structure is made of a stationary aluminum framework with adjustable louvers by means of a motor. The control mechanism is a 24 volt Linak linear actuator motor which is operated with a remote control.
- D. Blades shall be operable and adjustable from closed position to 140°.
- E. Brackets , pins, plates, and screws of the entire unit must be made of 304 or 470 stainless steel.
- F. Modular / Coupled together units shall share a common structural gutter beam maximum 22 cm high, and middle posts. Posts and gutter system shall act as downspouts for water management.
- G. Pergola® models include the Opera and Vision, along with Raso side screens that are optional for Opera model. Screens must be incorporated within the beam system.
- H. Opera and Vision models can be either wall mounted or free standing.

2.2 STRUCTURAL & MATERIALS

- A. Product Description: Frame member's tubular aluminum Extrusion anodized or powder coated from manufacturers standard or custom available color range. Frame member's

tubular aluminum Extrusion powder coated from manufacturers standard or custom available color range. Posts shall be at least 15 cm x 10 cm profile. Support Profile with guide must be at least 22 cm high. Blades shall be 20 cm with a fixed blade added for custom projections down to 1 cm increments.

- B. Unit Size: Field measure each structure to fit. Dimensions: Overall width, overall projection, mounting height at wall, post height.
- C. Type of system, wall mounted or free standing.
- D. Modular multi bay or single system.
- E. Screen Fabric: PVC Ferrari 602 opaque, Ferrari 502, Soltis 86, or Soltis 92. from manufacturers standard range of types and colors.
- I. Louvered system motor shall be manufactured by “Linak” and controls by Teleco. Screen motors shall be somfy RTS radio compatible 525 series (ALTUS / RTS) range.

2.3 ACCESSORIES

- A. Roll up optional screens will utilize “Raso” screens on sides integrated into the gutter system. Adding exterior screen with its own cassette housings not permitted.
- B. LED RGB perimeter lighting, and White LED spot or quadralights.
- C. Heaters.
- D. Glass panels / Retractable Glass Walls

PART 3 –EXECUTION

3.1 EXAMINATION

- A. Examine existing conditions to make sure the model design and product parameters comply with the design requirements.

3.2 INSTALLATION

- A. Install structures in accordance with the manufacturer’s standard instructions.
- B. If motorized, set the limit switches and program all remotes. Coordinate with the electrician so that all motors are wired to local codes.

- C. Coordinate installation with other divisions for proper installation of structure to decking, concrete slab or wall attachment. Anchor mounting supports to provide adequate support for intended use of structure, design loads, and local codes.
- D. Buildings are to be field measured by the awning contractor prior to Pergola awning being manufactured and installed.

3.3 DEMONSTRATION

- A. Demonstrate operational method and instruct owner's personnel in proper operation and maintenance of the awning system per manufacturers most updated maintenance and service documents.

END OF SECTION

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