



## Louvered Opening Roof

### SHORT FORM SPECIFICATIONS: 10530

#### PART I- GENERAL

##### 1.1 SUMMARY

This section specifies prefabricated overhead shade structures providing sun protection, such as Pergola walkway covers canopies, carports and other systems as manufactured by Four Seasons Building Products. All structures shown on plans and drawings, accompanying this specification, shall be furnished by Four seasons Building Products 5005 Veterans Memorial Highway Holbrook, NY 11741

- (A) The prefabricated protective louvered roof structures are shown on drawings and details, and assembled, in accordance with Four Seasons Building Products instructions.
- (B) Concrete for related slabs and footings are specified in Division 3 of Specifications.
- (C) Related sections:
  - 1. Section 03300 - Cast in place concrete.
  - 2. Section 07920 - Joint sealant.
- (D) References:
  - 1. Current edition IBC Building Code ASCE 7.
  - 2. Florida Building codes I.C.C
  - 3. AAMA Publication 603.8 - Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coating of Extruded Aluminum.
  - 4. ASTM B 449 - Standard Practice for Chromate Treatments on Aluminum.

##### 1.2 SUBMITTALS

- (A) Provide shop drawings and product data as required to clearly illustrate materials and installation details. All shop drawings can be signed and sealed by a Registered Professional Engineer.
- (B) Provide samples of aluminum finish for louvered blades and tube and extruded support structure.

##### 1.3 QUALITY ASSURANCE

- (A) Installer: A company having a minimum of 2 years' successful experience installing prefabricated protective covers similar in extent is required for this project.
- (B) Installation Provided General Contractor, Sub Contractor or dealer can be arranged through Four Seasons Building Products

## **1.4 ENGINEERING DATA**

- (A) Engineering is available from Four Seasons Building Products. Comply with Building Code for site location or per design requirements. These are based upon the current edition IBC and local jurisdiction requirements.
- (B) Compliance with state and local codes must be verified with shade structure manufacture.
- (C) Design shall be based upon standards and specifications by the Aluminum Association, Inc. One-third increases in allowable stress may be used for wind and roof live loads.
- (D) Structure shall be capable of sustaining severe icing, hail and meet the wind criteria.

## **1.5 DELIVERY, STORAGE AND HANDLING:**

- (A) As recommended by the manufacturer.

## **PART 2- PRODUCTS**

### **(A) MANUFACTURER**

1. Four Seasons Building Products or equal product; must be approved in writing by architect 10 days prior to the bid.

### **(B) MATERIALS**

1. Extruded Aluminum 6061 T6 Louvered Blade 7 5/8 "X 1 13/16" X 1 1/4" with .080 wall thickness with interlock blade with wool pile weather stripping.
2. Aluminum 6063 T6 Pivot Strip 1 11/16' x .118 wall thickness
3. Aluminum Link Bar 6063 T6 1 1/4" x .125 wall thickness
4. Weather stripping minimum width of .187, minimum height of .180 and maximum height of .230.
5. Extruded Aluminum 6063 T6 Gutter 5 1/2" x 2" x3" .078 wall thickness.
6. Extruded Aluminum Box Beam 6063 T6 2' wide 8" tall .118 wall thickness
7. Extruded Aluminum 6063 T6 Post 7" x 7" .118
8. 22 Gauge Steel Post 3.5" x 3.5" A 500 grade steel insert
9. Extruded Aluminum Post 4" x 4" 125
10. 22 Gauge Steel Post 6" x 6" A 500 grade steel insert
11. Hardware shall be stainless or non-corrosive, as selected by the manufacturer.
12. Sealant and flashing or other nonstructural items: as per manufacturer.

© FINISHES AAMA 2604

AAMA 2604 rated paint is an intermediary level of powder coating. Experts say it should be used for high traffic areas such as on doors or storefronts because of its durability.

**2604 ratings**

- **Color retention:** 2604 rated paint must maintain an acceptable level of color change over 5 years.
- **Gloss retention:** After 5 years, 2604 paint must retain 30% of its gloss.
- **Thickness:** To achieve 2603 rating, paint must be a minimum of 1.2 mm.
- **Accelerated testing:** 2603 rated paint must withstand 3,000 hours of salt spray and humidity abuse before becoming damaged.

**(C) FABRICATIONS**

- **Shade Structure Louvered Components:**  
Gutters Beams and Blades fabricated to standard lengths as required with ability to field cut as needed. Per field drawings.
- **Internal columns, Beams:** Extruded aluminum sections of size and shapes indicated per shop drawings.

**(D) WARRANTY**

1. Limited Lifetime as per manufacturer unless otherwise specified.

**PART 3- EXECUTION**

**(A) INSPECTION**

1. Prior to start of work, verify that surrounding conditions are acceptable for the installation of Louvered Shade Structure.
2. Contractor will field verify dimensions and elevations as shown on architectural drawings prior to fabrication by the manufacturer.

**(B) INSTALLATION**

1. **Erection:** Shade Structure shall be erected true to line, level, and plumb. clear acrylic coating shall protect aluminum columns embedded in concrete.
2. **Cleaning:** Shade Structure shall be cleaned properly by the contractor after completion of installation.