



## **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 shade 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.
  - 1. Footing block out is provided by others as part of concrete work.
- (C) Related sections:
  - 1. Section 03300 - Cast in place concrete.
  - 2. Section 07920 - Joint sealant.
- (D) References:
  - 1. Current edition IBC
  - 2. Florida Building codes I.C.C
  - 1. ESR-1953 Western Fire Code
  - 2. AAMA Publication 603.8 - Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coating of Extruded Aluminum.
  - 3. 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 shall be signed and sealed by a Registered Professional Engineer.
- (B) Provide samples of aluminum finish for beam, rafter and tube and extruded support structure.

#### **1.3 QUALITY ASSURANCE**

- (A) Installer: A company having a minimum of 3 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 current edition IBC, current edition 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.
- (E) ESR-1953 Western Fire Code Ultra-Lattice a class A spread of flame UBC 15-2

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

- (A) As recommended by the manufacturer.

## **PART 2- PRODUCTS**

### **(A) MANUFACTURER**

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

### **(B) MATERIALS**

1. Roll form member must have deep driftwood embossing to sustain the look of wood as manufactured by Four Season Building Products and meeting requirements of ATAM B209, alloy 3105-H28 or 3004-H34
2. Roll Form Aluminum: 3"x 8" beam rafter (.040)
3. Roll form Aluminum 2" x 6" beam rafter and (.024,.032,.040) available
4. Roll form Aluminum 3"x 3" sleeve (.024)
5. Extruded Aluminum Columns, Beams
6. Hardware shall be stainless or non-corrosive, as selected by manufacturer.
7. Sealant and flashing or other nonstructural items: as per manufacturer.

### **(C) FINISHES**

1. Aluminum Extrusions Powder Coating
2. Roll Formed Members shall be Fluoropolymer (Kynar) 2-Coat Coating System: manufacturer's



standard 2-coat, thermoduric system composed of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 605.2.

3. Color: As selected from manufacturer standard available colors.
4. All other finishes shall be equal or exceed requested.

#### **(D) FABRICATIONS**

1. Shade Structure Components:
  - rafters, beams, and shade tubes Fabricated to standard lengths as required with ability to field cut custom configurations as needed. Per field drawings.
2. Internal columns, Beams: Extruded aluminum or steel sections of size and shapes indicated per shop drawings.

#### **(E) WARRANTY**

1. Limited Lifetime as per manufacturer unless otherwise specified.

### **PART 3- EXECUTION**

#### **(B) INSPECTION**

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

#### **(C) INSTALLATION**

1. Column sleeves: Footings or anchor bolts (if required shall be furnished by others).
2. Erection: Shade Structure shall be erected true to line, level, and plumb. clear acrylic coating shall protect aluminum columns embedded in concrete.
3. Cleaning: Shade Structure shall be cleaned properly by the contractor after completion of installation.