

Steel Frame Hipped Pavilion

Technical Specifications



- I. **Design Criteria:** Structure(s) shall be designed to be free standing, open air pavilion, in conformance with all applicable building code. Manufactured by RCP Shelters: PO Box 25, Stuart, FL 34995, Ph: 800-525-0207, fax: 772-288-0207, web: www.rcpshelters.com, e-mail: info@rcpshelters.com.
- II. **Scope:** Rectangular picnic pavilion over a 4" minimum thickness reinforced concrete slab. Shelter shall have a clear space, without a center column or open knee bracing. The end bays shall have a hipped roof. The owner or contractor shall be responsible for unloading, temporary storage, soil testing (if necessary), site preparation, concrete slab, & erection of structures. Structure will be designed by professional, registered engineers.
- III. **Eave & Pitch:** Eave height to be minimum **7'-6"**. Roof pitch to be **4:12**.
- IV. **Columns:** Columns shall be structural tube steel with base plate, cap, & beam to column connection. The shelter shall be set on prepared concrete footings. Foundation (by others) will be designed & constructed to meet the local code and good construction practices for the specific site conditions. The structure shall be attached to the top of the concrete by use of four (4) anchor bolts per column as specified by the manufacturer. Anchor bolts, (supplied by owner/GC), shall be hidden by the concrete pad.
- V. **Frame:** All structural framing shall be structural tube steel with end caps to form a clean, neat appearance with no place for bird nesting. No cheap, light gauge, structural sections will be used. Since all connections will bolt together, field welding shall not be required. Bolts shall be concealed within the tubing where possible. The steel frame & columns shall be factory prime painted with a rust inhibitive modified alkyd primer according to Steel Structures Painting Council (SSPC-SP2) as outlined in AISC 6.5.
- VI. **Column/Frame Finish:** The columns and frame shall be finish painted with two coats weather resistant enamel paint, supplied and applied by the contractor or owner.
 - **Factory Finish Paint: (Optional)** The columns and frame shall be factory finish painted with two coats weather resistant enamel paint.
 - **Powder Coat: (Optional)** The columns and frame shall receive one coat zinc rich primer, then top coated with polyester powder-coating, 4 to 6 mils. The frame shall be packaged in foam, cardboard, and stretch wrap to protect the finish during transit.
- VII. **Roof Deck:** Shall be nominal 2" x 8" #1 grade, T&G, SYP, edge veed one side, kiln dried, and furnished in specified lengths so that all joints occur over a beams and purlins.
- VIII. **Roofing: (Optional)**
 - A. Shall be 25-year warranty, class "A" fire rated, fiberglass shingles over 15# felt underlayment. Roofing nails to be galvanized, 1¼"galvanized and supplied by the manufacturer. Drip edge applied continuously along perimeter.
 - B. Shall be galvanized metal, "R" panels with ¾" high ribs, 9" on center. Ribs shall run with the roof pitch for proper drainage. Matching roof trim & fasteners shall be supplied. All roofing and trim finish painted using the "Kynar 500" paint system. Color to be chosen by owner from standard color chart.
- IX. **Fascia:** Shall be #1 grade, 2" x 6" SYP, CCA pressure treated 0.4 pcf, per AWPA standards.
- X. **Pre-Engineered Package:** The shelter shall be pre-cut & pre-fabricated package that shall include the structural steel frame, T&G roof, fasteners, trim & installation drawings. The structure shall be shipped in a knocked down manner for minimum shipping charges.