

All Steel Square 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, e-mail: info@rcpshelters.com, & website: www.rcpshelters.com.
- II. **Scope:** Square 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 roof shall be hipped. 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 shall be minimum 7'-6". Roof pitch shall be 4:12 or 6:12.
- 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 codes, 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. Compression ring to be structural steel plate. Since all connections will bolt together, field welding shall not be required. Bolts shall be concealed within the tubing where possible.
- VI. **Column/Frame Finish:** Steel columns & frame to 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. The columns & frame shall be finished painted in the field with a weather resistant 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. **Roofing:** The roof system shall be 24-gauge galvanized steel panels with 1-3/16" high ribs, 12" on center. It shall be pre-cut into panels 3' wide by the length from the eave to the ridge. Angles shall be factory pre-cut. Matching roof trim & fasteners shall be supplied. Ribs shall run with the pitch of the roof for proper drainage. Hip and ridge beams must have cap plates for metal deck bearing. Metal deck cannot bear on beam corner only. This is structurally unsound and will be rejected. Panels shall be pre-painted with a "Kynar 500" paint system to a color selected by owner from the standard color chart.
- VIII. **Pre-Engineered Package:** The shelter shall be pre-cut & pre-fabricated package that shall include the structural steel frame, panelized pre-finished roof, fasteners, trim & installation drawings. The structure shall be shipped in a knocked down manner for minimum shipping charges.