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## THE RALEIGH II SHELTER

### SPECIFICATIONS

**Manufacturer:** Shelter shall be designed and furnished by EnWood Structures, Raleigh, NC.

**Shelter Design:** Shelter design system shall be THE RALEIGH II.

**Manufacture:** Manufacture of the structural glued laminated wood components shall conform to the manufacturing requirements of the American Institute of Timber Construction Standards and Standard Specifications for Glued Laminated Timber, AITC 117.

**Manufacturer's and Fabricator's Certification:** Shelter's manufacturer, and fabricator, shall be a member of, and hold full certification from, The American Institute of Timber Construction (AITC).

**Manufacturer and Fabricator:** The manufacturer and fabricator of the shelter's laminated wood components and the shelter's steel connectors shall be one in the same, to assure quality fit of all connections.

**Quality Control:** Quality Control shall be provided in accordance with ANSI/AITC A190.1-latest edition, American National Standard for Wood Products- Structural Glued Laminated Timber, and the American Institute of Timber Construction Inspection Manual AITC-200.

**Lumber:** Laminating lumber shall be #1 grade kiln-dried, with maximum 15% moisture content, Southern Yellow Pine graded to meet the requirements of Standard Specifications for Structural Glued Laminated Timber, AITC 117. Lumber combination shall be determined by the design requirements for each component and designated on the fabricator's shop drawings.

**Treated Components:** All treated components must be treated prior to gluing. All treated components with ground contact must be treated prior to gluing, at .6 lbs. per cubic foot with CCA.

**Adhesives:** Adhesives shall be wet-use (waterproof) complying with ANSI/AITC A190.1-latest edition.

**Columns:** Standard shelters to have embedded glued laminated wood columns. Glulam columns to be pressure-treated at .6 lbs, prior to gluing, in accordance with AITC 109 Standards.

**Curved-Tapered Beams:** Glulam beams to be fabricated with #1 Grade, kiln-dried, with 15% moisture content, Southern Yellow Pine.

**Multi-Span Roof Deck:** Two-inch (nominal) #1 Grade, single tongue and groove with V-joint bottom face, kiln-dried, to an average of 15% moisture content, Southern Yellow Pine. Deck shall be finger-jointed (glued) to full lengths required for spanning three or more supports. Galvanized 16d nails shall be provided.

**Fascia:** 2" x 6" fascia, Southern Yellow Pine, #1 SPIB Grade, pressure-treated in accordance with AITC 109 Standards. Galvanized 16d nails shall be provided.

**Roofing:** Class A fire rated fiberglass shingles (25-Year Warranty) with one layer of #30 felt. Standard shelter to have Autumn Brown color shingles. Galvanized roofing nails for attaching felt & shingles shall be provided.

**Optional Metal Roofing:** Metal roofing available in standing seam and rib systems. Gauges of 19 and 24 gauge will determine which system used. Panels to meet full performance requirements of the ASTM E 283 and ASTM E 331. Paint specifications to be full Kynar500 / Hylar 5000 paint system and are compliant with ASTM standards. Architect to choose from one manufacturers standard colors.

**Hardware:** All steel and hardware for beam and column connections shall be provided. Steel connections to be prime painted with rust inhibitor paint. Hardware to be electrostatic zinc plated.

**Design:** The structural systems are designed to sustain actual dead load in conjunction with 30 PSF live load or 20 PSF wind load, whichever combination is critical. The rigidity offered by embedment of the laminated columns provides overall lateral stability.

**Appearance Grades:** AITC Architectural grade. Exposed faces of glulam members to receive one coat of factory-applied clear penetrating sealer.

**Protection:** Members shall be wrapped for shipping.

**Storage and Erection:** The general contractor is responsible for protection of the materials after arrival at destination. If stored temporarily, members should be placed on blocks well off the ground and separated with wood strips so that air can circulate around each member. Cover top and bottom with moisture-resistant paper. Use non-marring slings when handling.

**Shop Drawing:** The fabricator shall furnish a complete set of shop drawings showing the necessary details.

For additional information, assistance with inquiries, specifications on CD,  
or photos of completed shelter projects, please contact:

**Zenecar, LLC 919.518.0464**

or

**[www.enwood.com](http://www.enwood.com)**

