

PROPOSED DRAFT  
AUGUST 2014

**705.01.2 Wood Posts and Blockouts**

Furnish wood posts and blockouts made from Douglas fir, Hemlock, Ponderosa Pine, Spruce, Larch, Southern Yellow Pine, or Lodgepole pine. Furnish straight, sound posts, free from defect and meeting the dimensions specified in the contract.

Meet the Western Wood Products Association requirements or equivalent grading rules for No. 2 grading or better in accordance with ASTM D245.

Ensure post surfaces do not vary more than 1-inch (25 mm) from a straight line connecting the ends. Saw wood posts before treating. Ensure that wood posts and blockouts are seasoned to accept specified treatment in accordance with Subsection 705.03.1.

Other acceptable blockouts may be manufactured from recycled plastic or recycled plastic with wood fibers, provided the requirements of Subsection 606.03.1 are met.

Use only one blockout type per each run of guardrail.

**705.01.3 Round Wood Guardrail Posts**

Furnish round wood posts with concave blockouts meeting Subsection 705.01.2, Detailed Drawings and the following requirements:

1. Machine peeled with outer bark removed. Ensure no remaining strip of inner bark is wider than 0.5 inch (13 mm), or longer than 1.5 inches (38 mm).
2. No check wider than 0.5 inch (13 mm) or deeper than 1.5 inches (38 mm) over the post length, and no wider than 0.25 inch (7 mm) or deeper than 2.0 inches (50 mm) through the bolt holes.
3. No more than a single 1.0 inch (25 mm) maximum diameter knot per six feet (1.83 m) of post length.
4. No more than a 180 degree twist in grain over the full post length.
5. Taper producing less than 1.0 inch (25 mm) difference in diameter over the post length.

Ensure the post surface above ground is without scarring longer than 6.0 inches (150 mm), or wider than 2.0 inches (50 mm).

**705.01.5 Steel Posts**

Furnish steel posts for cable guardrail in accordance with the contract. Spot paint bruised, broken, scaled, or damaged coating on steel posts with two coats of cold galvanizing compound in accordance with the manufacturer's recommendations.

Furnish minimum 6-foot (1830 mm) long steel guardrail posts for steel beam guardrail.

Ensure that steel guardrail posts and associated hardware meets the AASHTO *Guide to Standardized Highway Barrier Hardware* (Task Force 13 Report).

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Deleted: 705.01.3 Concrete Posts

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Lightweight aggregates may be used in manufacturing guardrail posts.¶  
Produce both fine and course aggregates for lightweight concrete by expanding, calcining, or sintering blast furnace slag, clay, diatomite, shale, or slate.¶  
Meet AASHTO M 195 aggregate requirements. Use separate fine and course aggregate. Use fine aggregate in the No. 4 (4.75 mm) to 0 size. Use course aggregate of either ¾-inch (19.0 mm) to No. 4 (4.75 mm) or ½-inch (12.5 mm) to No. 4 (4.75 mm).¶  
Meet a minimum compressive strength of 3,000 psi (20.7 MPa) (equal to Class General concrete) with a maximum absorption of 15% by volume and a maximum unit weight of 115 pounds per cubic foot (1,864 kg/m³). Aggregate pre-wetting may be required.¶  
Use reinforcing steel in accordance with Section 711. Steel size and shape is specified in the contract.¶  
The AASHTO M 195 Freeze-Thaw test is not required.¶

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