

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSTRUCTION SPECIFICATION**

**IA-83 TIMBER FABRICATION AND INSTALLATION**

**1. SCOPE**

This specification covers the quality and installation of plywood and pressure treated structural timber poles, posts, and lumber structures and also timber and lumber portions of composite structures.

**2. MATERIAL**

Plywood shall be new and of exterior grade. Plywood for use underground shall be pressure treated.

Structural timber and lumber shall be structural grade or better. Structural timber poles and posts shall be sound, free of cracks, decay free, and straight. All lumber shall be treated in conformance with ASTM D 1760 by any of the following preservatives:

- Creosote
- Creosote – Coal Tar Solutions
- Creosote – Petroleum Solutions
- Pentachlorophenol
- Water-borne preservative (ACC, ACA, CCA)

Bolts, rods, nuts, washers, and other hardware shall be an appropriate grade of steel and shall be galvanized.

**3. INSTALLATION**

All framing shall be true and exact. Timber and lumber shall be accurately cut and assembled to a close fit and shall have even bearing over the entire contact surface. Holes for machine bolts shall be bored to the same diameter as that of the bolt.

Raw ends of lumber which have been cut after treatment shall be immersed in the preservative solution, or painted with four (4) heavy coats of the treatment solution. Each application should be allowed to dry before subsequent applications.

**4. SPECIAL SPECIFICATIONS**