

Part 642 – Specifications

Chapter 3 – National Standard Material Specifications

Material Specification 585—Wood Preservatives and Treatment

A. Scope

This specification covers the quality of wood preservatives, treatment processes, quality of treated material, and marking related to preservative treatment. Included are requirements for fasteners, connectors, and any other metal that will be in contact with preservative treated wood.

B. Treatment Processes

Treatment processes may use any combination of atmospheric air, initial air pressure, or vacuum and pressure that will achieve the desired results without damaging the wood.

C. Preservatives

The wood must be treated with the specified type of preservative.

D. Quality of Treated Material

Treated lumber, timber, piles, poles, or posts must be free from heat checks, water bursts, excessive checking, chafing damage, or from any other damage or defects that would impair their usefulness or durability for the purpose intended. The use of s-irons is not permitted. Holes bored for tests must be filled with tight fitting, treated wood plugs.

E. Marking

Each treated wood item delivered to the job site must be identified with a label, brand, or stamp that lists: the product name or logo; treatment company name and location; names of the preservative components; treatment end use category; minimum retention; and the applicable AWWPA treatment standard or the number of the evaluation report from an evaluation service recognized by the International Code Council at <http://www.iccsafe.org>.

F. Fasteners and Connectors

All fasteners, connectors, and any other metal contacting preservative treated wood must be hot-dipped galvanized or stainless steel.

- (i) Unless otherwise specified, all fasteners, connectors, and any other metal contacting ammoniacal copper zinc arsenate (AVZA), alkali copper quaternary (ACQ), micronized copper quaternary (MCQ) copper azole (CA), or micronized copper azole (MCA) treated wood must be stainless steel.
- (ii) Galvanizing for fasteners must conform to ASTM A153. Galvanizing for connectors made from steel sheet must conform to ASTM A653, Class G185. Galvanizing for all other metal in contact with preservative treated wood must conform to ASTM A123.
- (iii) Stainless steel must be AISI Type 304 or 316.