

Model Specification

The following paragraphs are for insertion into a section of generic specifications or generic/proprietary specifications covering rough carpentry to include preservative treated wood. Notes shown in italics should not be included in the final specification.

PART 1 GENERAL

1.01 REFERENCES

- A. American Wood-Preservers' Association (AWPA) 2018 Book of Standards:
- Standard UC1-18, All Timber Products — Preservative Treatment by Pressure Process.
 - Standard UC 5A-C, Lumber, Timber and Ties (salt water use only).
 - Standard UC 4A-C, UC 5A-C Piles.
 - Standard UC 4A-C, Poles.
 - Standard UC2, UC 3B, UC 4A-B, UC 5A-C Plywood.
 - Standard UC 4A-B, UC 5A-C, Wood for Highway Construction.
 - Standard UC 3B, UC 4A Wood Used on Farms.
 - Standard UC 5A-C, Marine Construction
 - Standard UC 4B, Lumber and Plywood for Permanent Wood Foundations.
 - Standard UC 4A-C, Round Poles and Posts Used in Building Construction.
 - Standard UC 4A-C, Sawn Timber Used to Support Residential and Commercial Structures.
 - Standard UC 3B, UC 4A, Sawn Crossarms
 - Standard UC1, UC2, UC 3B, UC 4A-C Structural Glued Laminated Members and Laminations Before Gluing.
 - Standard UC 4A, Lumber, Timbers, and Plywood for Cooling Towers (Book of Standards 2018).
 - Standard UC 3B, UC 4A-C, Structural Composite Lumber.
 - Standard UC 3B, Shakes and Shingles.
 - Standard P23-14, Waterborne Preservatives.
 - Standard M4, Care of Preservative-Treated Wood Products.
- A. National Institute of Standards and Technology (NIST):
- PS 1, U.S. Product Standard for Construction and Industrial Plywood.
 - PS 20, American Softwood Lumber Standard.
- A. Western Wood Preservers Institute
- Best Management Practices for the Use of Treated Wood in Aquatic Environments.

1.02 QUALITY ASSURANCE

- A. Qualifications:
- Treatment Facility: Provide treated materials that have been produced under the appropriate ASTM or ANSI standard or an ALSC recognized quality assurance program.

1.03 DELIVERY, STORAGE, AND HANDLING

If drying after treatment is selected in part 2, retain the two paragraphs below.

A. Packing and Shipping:

- Provide waterproof covers for preservative treated wood during shipment.

Storage and Protection:

- Store preservative treated wood off the ground and protected from the weather.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Preservative: Koppers Performance Chemicals CCA Type C;

2.02 MATERIALS

Lumber for preservative treatment must conform to the following specifications. Select grade and species below. Other grades and species may be acceptable, contact Koppers to verify.

- A. Lumber: In accordance with NIST PS 20 and as follows:
- Grade: No. 1
 - Grade: No. 2
 - Grade: No. 1 Dense.
 - Grade: No. 2 Dense..
 - Grade: Select Structural.
 - Species: Southern pine.
 - Species: Red pine.
 - Species: Ponderosa pine.
 - Species: Hem-fir.
 - Surfacing: S4S.
 - Surfacing: S1S2E.
 - Surfacing: Rough.
 - Moisture Content: 19%, maximum.

Plywood for preservative treatment must conform to the following specifications. Select panel grade, exposure durability, species group, and structural rating from below.

- A. Plywood: In accordance with NIST PS 1 and as follows:
- Panel Grade: A-C.
 - Panel Grade: B-C.
 - Panel Grade: C-C.
 - Panel Grade: C-D.
 - Exposure Durability: Exterior.
 - Exposure Durability: Exposure 1.
 - Species Group: 1.
 - Species Group: 2.
 - APA Structural Rating: Structural I.
 - APA Structural Rating: Structural II.

- C. Preservative: CCA Type C in accordance with AWPA P5 and formulated using only the oxide form of the chemicals.

2.03 PRESERVATIVE TREATMENT

Select required end uses below.

- A. Pressure Treatment: In accordance with the requirements of AWPA Standard UC1-18 and in accordance with the following standards for indicated end uses:
- Lumber (salt water use only): UC 5A-C.
 - Piling: UC 4A-C, UC 5A-C.
 - Poles: UC 4A-C.
 - Plywood: UC2, UC 3B, UC 4A-B, UC 5A-C
 - Highway Construction: UC 4A-B, UC 5A-C.
 - Poles, Piles and Posts Used as Structural Members on Farms: UC 3B, UC 4A.
 - Agricultural Fence Posts: UC 3B, UC 4A.
 - Marine Construction: UC 5A-C.
 - Permanent Wood Foundations: UC 4B.
 - Building Poles and Posts: UC 4A-C.
 - Sawn Timbers: UC 4A-C.
 - Sawn Crossarms: UC 3B, UC 4A
 - Structural Glued Laminated Members: UC1, UC2, UC 3B, UC 4A-C.

- Cooling Towers: UC 4A.
- Structural Composite Lumber: UC 3B, UC 4A-C.
- Shakes and Shingles: UC 3B.

Select required applications below.

B. Preservative Retention: In accordance with the specified standard, determined in the specified zone for the following applications:

- Above Ground.
- Ground or Fresh Water Contact.
- Wood Foundation or Structural Poles.
- Salt Water Immersion.

A. Moisture Content: Drying after treatment is not required.

Select Above or Below.

B. Moisture Content: Dry after treatment as follows:

- Lumber: 19%, maximum.
- Plywood: 18%, maximum.
- Plywood: 15%, maximum (for Permanent Wood Foundation).

Retain below if fixed preservative is required for aquatic environments.

A. Pressure Treatment of Materials for Aquatic Environments: In accordance with the Best Management Practices published by the Western Wood Preservers Institute.

2.05 SOURCE QUALITY CONTROL

A. Inspection:

- Untreated Material:

Lumber: Provide lumber that has been inspected and graded before treatment by an ALSC recognized grading agency.

Plywood: Provide plywood that has been inspected and graded before treatment by a code-recognized inspection and testing agency.

Poles: Provide poles that have been inspected and graded before treatment in accordance with ANSI standards.

Piling: Provide piling that has been inspected and graded before treatment in accordance with ASTM standards.

- Treated Material: Provide treated material that bears the quality mark of an ALSC-recognized agency which maintains supervision, testing, and inspection of the quality of the product.

PART 3 EXECUTION

3.01 INSTALLATION

Below is not generally required for pine species less than 5 inches thick in the eastern and central U.S. No other special installation specifications are required for preservative treated wood.

A. Surface Treatment of Field Cuts: Treat field cuts on members that provide structural support to a permanent structure in accordance with AWPA Standard M4.

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