

### 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.

[www.kopperspc.com](http://www.kopperspc.com)

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