

Wolmanized® Heavy Duty™ Wood Specification

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) 2001 Book of Standards:
 - 1. Standard C1, All Timber Products — Preservative Treatment by Pressure Process.
 - 2. Standard C2, Lumber, Timber and Ties (salt water use only).
 - 3. Standard C3, Piles.
 - 4. Standard C4, Poles.
 - 5. Standard C9, Plywood.
 - 6. Standard C14, Wood for Highway Construction.
 - 7. Standard C16, Wood Used on Farms.
 - 8. Standard C18, Marine Construction.
 - 9. Standard C22, Lumber and Plywood for Permanent Wood Foundations.
 - 10. Standard C23, Round Poles and Posts Used in Building Construction.
 - 11. Standard C24, Sawn Timber Used to Support Residential and Commercial Structures.
 - 12. Standard C25, Sawn Crossarms
 - 13. Standard C28, Structural Glued Laminated Members and Laminations Before Gluing.
 - 14. Standard C30, Lumber, Timbers and Plywood for Cooling Towers (2002 Book of Standards)
 - 15. Standard C33, Structural Composite Lumber.
 - 16. Standard C34, Shakes and Shingles.
 - 17. Standard P5, Waterborne Preservatives.
 - 18. Standard M4, Care of Preservative-Treated Wood Products.

- A. National Institute of Standards and Technology (NIST):
 - 1. PS 1, U.S. Product Standard for Construction and Industrial Plywood.
 - 2. PS 20, American Softwood Lumber Standard.

- A. Western Wood Preservers Institute
 - 1. Best Management Practices for the Use of Treated Wood in Aquatic Environments.

1.02 QUALITY ASSURANCE

- A. Qualifications:
 - 1. 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:
 - 1. Provide waterproof covers for preservative treated wood during shipment.

- A. Storage and Protection:

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Preservative: Wolman® CCA Type C; Arch Wood Protection

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 Arch to verify.

- A. Lumber: In accordance with NIST PS 20 and as follows:

1. Grade: No. 1
1. Grade: No. 2
1. Grade: No. 1 Dense.
1. Grade: No. 2 Dense.
1. Grade: Select Structural.
2. Species: Southern pine.
2. Species: Red pine.
2. Species: Ponderosa pine.
2. Species: Hem-fir.
3. Surfacing: S4S.
3. Surfacing: S1S2E.
3. Surfacing: Rough.
4. 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:

1. Panel Grade: A-C.
1. Panel Grade: B-C.
1. Panel Grade: C-C.
1. Panel Grade: C-D.
2. Exposure Durability: Exterior.
2. Exposure Durability: Exposure 1.
3. Species Group: 1.
3. Species Group: 2.
4. APA Structural Rating: Structural I.
4. 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.

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2.03 PRESERVATIVE TREATMENT

Select required end uses below.

- A. Pressure Treatment: In accordance with the requirements of AWPA Standard C1 and in accordance with the following standards for indicated end uses:
1. Lumber (salt water use only): C2.
 2. Piling: C3.
 3. Poles: C4.
 3. Plywood: C9.
 4. Highway Construction: C14.
 5. Poles, Piles and Posts Used as Structural Members on Farms: C16.
 6. Agricultural Fence Posts: C16
 7. Marine Construction: C18.
 8. Permanent Wood Foundations: C22.
 9. Building Poles and Posts: C23.
 10. Sawn Timbers: C24.
 11. Sawn Crossarms: C25
 12. Structural Glued Laminated Members: C28.
 13. Cooling Towers: C30.
 14. Structural Composite Lumber: C33.
 15. Shakes and Shingles: C34.

Select required applications below.

- B. Preservative Retention: In accordance with the specified standard, determined in the specified zone for the following applications:
1. Above Ground.
 2. Ground or Fresh Water Contact.
 3. Wood Foundation or Structural Poles.
 4. Salt Water Immersion.

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

Select Above or Below.

- B. Moisture Content: Dry after treatment as follows:
1. Lumber: 19%, maximum.
 2. Plywood: 18%, maximum.
 3. 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:

1. Untreated Material:

- a. Lumber: Provide lumber that has been inspected and graded before treatment by an ALSC recognized grading agency.
- b. Plywood: Provide plywood that has been inspected and graded before treatment by a code-recognized inspection and testing agency.

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- c. Poles: Provide poles that have been inspected and graded before treatment in accordance with ANSI standards.
- d. Piling: Provide piling that has been inspected and graded before treatment in accordance with ASTM standards.

1. 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 AWWA Standard M4.