

SECTION 06 05 73

TREATED WOOD PRESERVATIVES - PRESSURE TREATED WOOD

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Preservative treatment of lumber and plywood.

1.2 RELATED SECTIONS

- A. Section 32 31 23 - Plastic Fences and Gates.
- B. Section 06 10 00 - Rough Carpentry.
- C. Section 06 15 00 - Wood Decking.
- D. Section 06 20 00 - Finish Carpentry.

1.3 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 2. ASTM A653 / A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. American Wood-Protection Association (AWPA):
 1. AWPA E12 - Standard Method of Determining the Corrosion of Metal in Contact with Wood.
 2. AWPA M4 - Standard for the Care of Preservative Treated Wood Products.
 3. AWPA P5 - Standard for Waterborne Preservatives.
 4. AWPA P23 - Standard for Chromated Copper Arsenate Type C (CCA-C).
 5. AWPA P25 - Standard for Inorganic Boron (SBX).
 6. AWPA P26 - Standard for Alkaline Copper Quat Type A (ACQ-A).
 7. AWPA P27 - Standard for Alkaline Copper Quat Type B (ACQ-B).
 8. AWPA P28 - Standard for Alkaline Copper Quat Type C (ACQ-C).
 9. AWPA P29 - Standard for Alkaline Copper Quat Type D (ACQ-D).
 10. AWPA P47 - Standard for DCOI/Imidacloprid/Stabilizer, Waterborne (EL2).
 11. AWPA P48 - Standard for Copper Azole Type C (CA-C).
 12. AWPA T1 - Use Category System: Processing and Treatment Standard.
 13. AWPA U1 - Use Category System: User Specification for Treated Wood.
- C. Permanent Wood Foundation (PWF) Design Specification, ANSI/AF&PA PWF-2007.
- D. Permanent Wood Foundations, Design and Construction Guide, Southern Pine Council. Publication #400.
- E. Hawaiian Local Building Code Standards.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's instructions for use, including requirements for storage,



cutting, and finishing.

- C. Preservative Treatment Certification: Treating plant's certification of compliance with specified standards, process employed, and preservative retention values.

1.5 QUALITY ASSURANCE

- A. Wood Treatment Plant Qualifications: Wood treatment plant experienced in performing work of this section licensed by Viance, LLC.
- B. Source Quality: Obtain treated wood products from a single approved source.
- C. Preservative Treatment: Mark each piece of plywood and lumber to show compliance with specified standards.
- D. Independent Third-Party Inspection:
 - 1. Provide plant inspections.
- E. Kiln Dry after Treatment (KDAT): Provide kiln dry material as indicated or required.
 - 1. Kiln dry after treatment to 19 percent maximum moisture content for lumber and 18 percent for plywood in accordance with AWWA T1, Section 7 - Drying After Treatment (lumber) and AWWA T1, Section :F: Pressure treated composites (3c) kiln drying after treatment.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Exposure: Prevent wood products against moisture and dimensional changes, in accordance with instructions from treating plant.

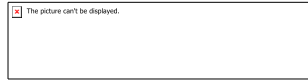
1.7 WARRANTY

- A. TIMBERSAVER PT Manufacturer's Warranty: Provide manufacturer's standard 20-year transferable limited warranty for pressure-treated wood.
- B. TIMBERSAVER 40 Manufacturer's Warranty: Provide manufacturer's standard 40-year transferable limited warranty for pressure-treated wood.
- C. Ecolife (EL2) Manufacturer's Warranty: Provide manufacturer's standard lifetime limited warranty for pressure treated wood.
- D. Preserve CA Manufacturer's Warranty: Provide manufacturer's standard lifetime limited warranty for pressure treated wood.
- E. Preserve ACQ) Manufacturer's Warranty: Provide manufacturer's standard lifetime limited warranty for pressure treated wood.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Viance - Treated Wood Solutions, which is located at: 8001 IBM Dr. Building 403 ; Charlotte, NC 28262; Toll Free Tel: 800-421-8661; Tel: 704-522-0825; Fax: 704-527-8232; Email: [request info \(Marketing@viance.net\)](mailto:request_info@viance.net); Web: www.treatedwood.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.



- C. Substitutions: Not permitted.

2.2 MATERIALS

- A. Dimension Lumber: As specified in Section 06 10 00 - Rough Carpentry.
- B. Structural Plywood: As specified in Section 06 10 00 - Rough Carpentry.
- C. Finish Lumber and Plywood: As specified in Section 06 20 00 - Finish Carpentry.
- D. Fasteners and Metal Hardware In Preservative Treated Wood : For treated wood and where wood is in ground contact, subject to high relative humidity, or exposed to weather, provide corrosion resistant steel fasteners with hot-dip zinc coating per ASTM A153/A153M, provide corrosion resistant hardware per ASTM A653 / A653M Class G-185 in compliance with building code requirements.

2.3 PRESERVATIVE PRESSURE TREATMENT OF WOOD

- A. Preservative treatment for above ground use continuously protected from liquid water:
 - 1. Treatment: TimberSaver PT (SBX) in accordance with AWPA U1 and P5 and P25.
 - a. For protection against North American subterranean termites, decay and insects, 0.25 lb/cu ft (4kg/m³) Disodium Octaborate Tetrahydrate (DOT) minimum retention (0.17 lb/cu ft (2.7 kg/m³) as B2O₃ equivalent) retention.
 - b. For protection against North America subterranean termites, Formosan termites and insects, use 0.42 lb/cu ft. (6.7 kg /m³) Disodium Octaborate Tetrahydrate (DOT) minimum retention (0.28 lb/cu ft. (4.5 kg/m³) as B2O₃ equivalent) in accordance with AWPA U1 or Hawaiian building code standards as appropriate.
 - c. All lumber and Plywood treated with TimberSaver PT shall be protected from exposure to the weather during transit and storage. TimberSaver PT treated products shall be stored out of ground contact and protected against exposure to liquid water.
 - 2. Treatment: TimberSaver 40 (SBX) in accordance with AWPA U1 and P5 and P25.
 - a. For protection against North American subterranean termites, Formosan termites and insects use 0.42 lb/cu ft. (6.7 kg /m³) Disodium Octaborate Tetrahydrate (DOT) minimum retention (0.28 lb/cu ft. (4.5 kg/m³) as B2O₃ equivalent) in accordance with AWPA U1 or Hawaiian building code standards as appropriate.
 - b. All lumber and Plywood treated with TimberSaver 40 shall be protected from exposure to the weather during transit and storage. TimberSaver 40 treated products shall be stored out of ground contact and protected against exposure to liquid water.
 - 3. Treat wood in the following locations:
 - a. All framing lumber, studs, sill plates, floor joists, roof rafters, trusses, plywood,
 - b. Interior sheathing, furring strips, flooring, moldings and wood trim.
- B. Preservative Treatment for Above Ground Use: decking, fencing, handrails, joists and subflooring, roof decks and sheathing.
 - 1. Treatment: ACQ as manufactured for Viance in accordance with AWPA U1 and P5, P26, P27, P28, P29 as appropriate.
 - a. Use 0.15 lb/cu ft (2.4 kg/m³) of ACQ in accordance with AWPA U1: (UC3B) as appropriate.
 - 2. Treatment: Ecolife or EL2 as manufactured by Viance.
 - a. Use 0.019 lb/cu ft (0.3 kg/m³) of Ecolife or EL2 (+ 0.2 lb/cu ft MCS) in accordance with AWPA U1 (UC3B) as appropriate.
 - 3. Treat wood in the following locations:
 - a. In contact with roofing, flashing, or waterproofing.



- b. In contact with masonry or concrete.
 - c. Within 18 inches (450 mm) of grade.
 - d. Exposed to weather.
 - e. Other locations indicated.
- C. Preservative Treatment, Ground and Fresh Water Contact: Fence posts, Landscaping, piers and docks.
1. Treatment: ACQ as manufactured for Viance in accordance with AWPA U1.
 - a. Use 0.40 lb/cu ft (6.4 kg/m³) of ACQ in accordance with AWPA U1 (UC4A) as appropriate.
 2. Use 0.40 lb/cu ft (6.4 kg/m³) retention.
 3. If required, kiln dry after treatment to 19 percent maximum moisture content for lumber and 18 percent for plywood.
 4. Treat wood in the following locations:
 - a. In contact with ground.
 - b. In contact with fresh water.
 - c. Used as posts, landscaping timbers, retaining walls, piers, or docks.
- D. Preservative Treatment for Wood Foundation Systems: Permanent wood foundations, crawl spaces.
1. Pressure-treat softwood lumber, timber, and plywood for wood foundation systems with waterborne preservatives to comply with AWPA U1.
 2. Treatment: ACQ as manufactured for Viance in accordance with AWPA U1 (UC4B)
 - a. Use 0.60 lb/cu ft (9.6 kg/m³) of ACQ in accordance with U1 or ESR 2644 as appropriate.
- E. Preservative Treatment for Saltwater Splash Zone Exposure:
1. Pressure-treat softwood lumber, timber, and plywood for saltwater splash with waterborne preservatives to comply with AWPA U1.
 2. Treatment: ACQ as manufactured for Viance in accordance with AWPA U1 (UC4B)
 - a. Use 0.60 lb/cu ft (9.6 kg/m³) of ACQ in accordance with U1 as appropriate.
 - b. SupaTimber: Clean and odor-free pressure treatment contains waterborne arsenical preservatives; requires some precautions in use and handling.

2.4 CCA PRESERVATIVE PRESSURE TREATMENT OF WOOD

- A. Preservative Treatment of lumber and plywood for Above Ground Use (UC3) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA:
1. Treatment: CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 2. Use 0.25 lb/cu ft (4 kg/m³) of CCA type C in accordance with AWPA U1.
 3. When required, kiln dry after treatment to 19 percent maximum moisture content for lumber and 18 percent for plywood recommended in accordance with AWPA T1 Section 7 - Drying After Treatment (lumber) and AWPA T1 Section F Pressure treated composites (3c) kiln drying after treatment.
 4. Treat wood for use in the following locations:
 - a. In contact with roofing, flashing, or waterproofing.
 - b. In contact with masonry or concrete.
 - c. Within 18 inches (450 mm) of grade.
 - d. Exposed to weather.
 - e. Other locations indicated.
- B. Preservative Treatment of lumber and plywood for Ground and Fresh Water Contact (UC4A) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA:
1. Treatment: CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.

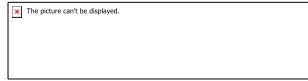


2. Use 0.40 lb/cu ft (6.4 kg/m³) of CCA type C retention in accordance with AWPA U1.
 3. When required, kiln dry after treatment to 19 percent maximum moisture content for lumber and 18 percent for plywood recommended in accordance with AWPA T1 Section 7 - Drying After Treatment (lumber) and AWPA T1 Section F Pressure treated composites (3c) kiln drying after treatment.
 4. Treat wood in the following locations:
 - a. In contact with ground.
 - b. In contact with fresh water.
 - c. Used as posts, landscaping timbers, retaining walls, piers, or docks.
- C. Preservative Treatment of lumber and plywood for Wood Foundation Systems UC4B in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA:
1. Pressure-treat softwood lumber, timber, and plywood for wood foundation systems with CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 - a. Use 0.60 lb/cu ft (9.6 kg/m³) retention of CCA type C to comply with AWPA U1
- D. Preservative Treatment of lumber and plywood for saltwater splash zone uses (UC4B) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA
1. Pressure treat softwood lumber, timber and plywood with CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 2. Use 0.60 lb/cu ft (9.6 kg/m³) retention of CCA type C to comply with AWPA U1
- E. Preservative Treatment for Poles (UC4B) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA
1. Pressure treat poles with CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 2. Use 0.60 lb/cu ft (9.6 kg/m³) retention of CCA type C to comply with AWPA U1
- F. Preservative Treatment of wood for fresh water and land round piles (UC4C) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA
1. Pressure treat wood with CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 2. Use 0.80 lb/cu ft (12.8 kg/m³) retention of CCA type C to comply with AWPA U1.
- G. Preservative Treatment of wood for saltwater immersion (Marine Use) (UC5) in accordance with the U.S. EPA Supplemental label requirements for forest products treated with CCA
1. Pressure treat wood with CCA type C manufactured by CSI in accordance with AWPA U1, P5 and P23.
 2. Use retentions of CCA type C appropriate for the marine exposure zone to comply with AWPA U1.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Framing and Sheathing: Comply with installation requirements in Section 06 10 00 - Rough Carpentry.
- B. Millwork and Trim: Comply with installation requirements in Section 06 20 00 - Finish Carpentry.
- C. Preservative Treated Wood:
 1. Surface treatment of field cuts: All field cuts on members that provide structural support to a permanent structure shall be field treated in accordance with AWPA M4.



- D. Wood Foundation System: Install in accordance with the following:
1. Permanent Wood Foundation (PWF) Design Specification, ANSI/AF&PA PWF-2007.
 2. Permanent Wood Foundations, Design and Construction Guide, Southern Pine Council. Publication #400.

END OF SECTION