



Most Widely Accepted and Trusted

ICC-ES Report

ESR-1477

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

Reissued 04/2016
This report is subject to renewal 04/2018.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
SECTION: 06 05 73.13—PRESERVATIVE WOOD TREATMENT

REPORT HOLDER:

ARCH TREATMENT TECHNOLOGIES, INC.

**5660 NEW NORTHSIDE DRIVE, SUITE 1100
ATLANTA, GEORGIA 30328**

EVALUATION SUBJECT:

WOLMANIZED ERAWOOD®



Look for the trusted marks of Conformity!

“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



ICC-ES Evaluation Report**ESR-1477**

Reissued April 2016

Revised July 2016

This report is subject to renewal April 2018.www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

**DIVISION: 06 00 00—WOOD, PLASTICS AND
COMPOSITES**
Section: 06 05 73.13—Preservative Wood Treatment**REPORT HOLDER:****ARCH TREATMENT TECHNOLOGIES, INC.**
5660 NEW NORTHSIDE DRIVE, SUITE 1100
ATLANTA, GEORGIA 30328
(678) 627-2000
www.wolmanizedwood.com
info@wolmanizedwood.com**EVALUATION SUBJECT:****WOLMANIZED ERAWOOD®****ADDITIONAL LISTEES:****EVERWOOD TREATMENT COMPANY, INC.**
11349 HIGHWAY 31
SPANISH FORT, ALABAMA 36527**MID-STATES WOOD PRESERVERS**
147 SHELBY ROAD
SIMSBORO, LOUISIANA 71275-0560**PETERSON WOOD TREATING, INC.**
2 RANDY JOHNSON STREET
SUPERIOR, WISCONSIN 54880**1.0 EVALUATION SCOPE****1.1 Compliance with the following codes:**

- 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

- Other Codes (see Section 8.0)

Properties evaluated:

- Preservative-treated wood
- Decay resistance
- Termite resistance
- Corrosion
- Structural

1.2 Evaluation to the following green standards:2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2012 and ICC 700-2008)**Attributes verified:**

See Section 3.1

2.0 USES

Wolmanized EraWood® Lumber is used for wood members in above ground applications that are required by the code to be protected against decay and termites.

3.0 DESCRIPTION**3.1 General:**

Wolmanized EraWood® products are recognized for use in above ground applications and to resist attack by fungal decay and subterranean termites, including Formosan termites.

Wolman® AG brand wood preservatives are produced by Arch Treatment Technologies, Inc., and are used by the wood-preserving plants listed in this report as additional listees to preservative-treat wood products in accordance with the Wolmanized EraWood® Standard (WL3-10) and the Wolman® AG Wood Preservative Manual of Standard Practice.

The attributes of the Wolmanized EraWood® (lumber) have been verified as conforming to the provisions of (i) ICC 700-2012 Sections 602.1.6 and 11.602.1.6; and (ii) ICC 700-2008 Section 602.8. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These standards often provide supplemental information as guidance. See Section 5.3 for limitations of use.

3.2 Preservative System:

Wolman® AG wood preservatives are propiconazole-tebuconazole-imidacloprid (PTI) preservative systems used for treating wood members. The active fungicides and termiticide in Wolman® AG wood preservative are propiconazole, tebuconazole and imidacloprid in a ratio of 10:10:1. These compounds are emulsified in water using a proprietary blend of dispersants.

3.3 Wood Species:

Wolmanized EraWood® lumber may consist of the following preservative treated materials:

- a. Dimensional lumber and timbers of the following species consisting of primarily sapwood: southern pine, mixed southern pine, ponderosa pine, red pine, radiata pine, redwood, western red cedar and Caribbean pine.
- b. Dimensional lumber and timbers of the following species consisting of primarily heartwood: Douglas fir, western hemlock, hem-fir.
- c. Lumber, of nominal size of 2-by-8 or less, for decking and specialty use of the species listed in (a) and (b), above.
- d. Southern pine and Douglas fir plywood.

Minimum preservative retention levels are provided in Table 1 of this evaluation report.

4.0 INSTALLATION

4.1 General:

Wolmanized EraWood® lumber is installed as preservative-treated lumber, timbers and plywood in accordance with the requirements of the applicable code.

Arch Treatment Technologies, Inc., and industry published installation instructions for wood and pressure-treated wood and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation.

The instructions within this report govern if there are any conflicts between Arch Treatment Technologies, Inc., instructions and this report.

4.2 Applications:

Wolmanized EraWood® lumber products may be used in above-ground locations where wood is used and/or in above-ground locations required by the code to be resistant to fungal decay or termites. The treated wood members are recognized for use in above-ground applications in all building types and occupancies where permitted by the applicable code. Typical applications are described in Table 2.

Locations requiring preservative-treated wood for fungal decay or termite resistance are described in Section 2304.12 of the 2015 IBC, 2304.11 of the 2012 and 2009 IBC, and Sections R317 and R318 of the IRC.

4.3 Fasteners:

The fasteners used with Wolmanized EraWood® products must be in accordance with Section 2304.10.4 of the 2015 IBC, Section 2304.9.5 of the 2012 and 2009 IBC and Section R317.3 of the IRC, except that aluminum fasteners are also permitted.

4.4 Structural:

4.4.1 Duration of Load: The maximum load duration factor allowed for Wolmanized EraWood® products used for structural members is 1.6, in accordance with Section 2.3 of the American Forest & Paper Association (AF&PA) National Design Specification for Wood Construction (NDS).

4.4.2 Incising Factor: When the treated wood products have been incised, the reference design values must be multiplied by the incising factor, C_i , in accordance with Section 4.3.8 of the NDS.

5.0 CONDITIONS OF USE

The Wolmanized EraWood® lumber described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Use of the preservative-treated wood is limited to the types of applications noted under Section 4.2 of this report.
- 5.2** Surface treatment of field cuts must be in accordance with the recommendations of Arch Treatment Technologies, Inc.
- 5.3** The Wolmanized EraWood™ (L³ Outdoor®) Wood products are limited to the wood species and minimum retention levels noted in Section 3.3 and Table 1.
- 5.4** Treatment is at the facilities of the listees noted in Table 3, under a quality control program with inspections by Timber Products Inspection Inc. (AA-664 and AA-696) or Southern Pine Inspection Bureau (AA-680).
- 5.5** The following physically above ground applications are required to be treated to ground contact (AWPA Use Category 4A) requirements.
 - 5.5.1** Components which are difficult to maintain, repair or replace and are critical to the performance and safety of the entire system/construction. Examples would be typical deck or dock joists or beams.
 - 5.5.2** Components subject to hazards comparable to ground contact due to climate, artificial or natural processes or construction which include the following:
 - 5.5.2.1.** When there is a reasonable expectation that soil, vegetation, leaf litter or other debris may build up and remain in contact with treated wood.
 - 5.5.2.2.** When the construction itself, other structures or anticipated vegetation growth will not allow air to circulate underneath the construction and between decking boards.
 - 5.5.2.3.** When treated wood is installed less than six inches above the ground (final grade after landscaping) and supported on permeable building materials such as treated wood or concrete.
 - 5.5.2.4.** When treated wood is in direct contact with non-durable untreated wood or any older construction with any evidence of decay.
 - 5.5.2.5.** When treated wood is wetted on a frequent or recurrent basis such as on a freshwater floating dock or by a watering system.
 - 5.5.2.6.** When treated wood is used in tropical climates.

6.0 EVIDENCE SUBMITTED

- 6.1** Data in accordance with the Appendix F, Carbon-Based Wood Preservative Treatment Systems (formerly AC268), of the ICC-ES Acceptance Criteria for Proprietary Wood Preservative Systems—Common Requirements for Treatment Process, Test Methods and Performance (AC326), dated October 2015.
- 6.2** Quality control documentation in accordance with Section 5.0 of AC326, and in compliance with AWPA M22 and AWPA M23.

7.0 IDENTIFICATION

Wolmanized EraWood® (lumber and plywood must be labeled with the name of the inspection agency (Timber Products Inspection Inc. or Southern Pine Inspection Bureau); the product name (Wolmanized EraWood®) or logo (see Figure 1); the treatment company name and

plant location; the name of the preservative components or designation (PTI); minimum retention; the intended end use; and the evaluation report number (ESR-1477). A sample label is shown in Figure 1 of this report.

8.0 OTHER CODES

In addition to the codes referenced in Section 1.0, the products in this report were evaluated for compliance with the requirements of the following legacy codes and earlier editions of the International codes:

- 2006 *International Building Code*[®] (2006 IBC)
- 2006 *International Residential Code*[®] (2006 IRC)
- 2003 *International Building Code*[®] (2003 IBC)
- 2003 *International Residential Code*[®] (2003 IRC)
- 2000 *International Building Code*[®] (2000 IBC)
- 2000 *International Residential Code*[®] (2000 IRC)

The Wolmanized EraWood[®] (preservative-treated lumber and plywood described in this report comply with, or are suitable alternatives to what is specified in, the codes listed above, subject to the provisions of Sections 8.1 through 8.6.

8.1 Uses:

See Section 2.0

8.2 Description:

See Section 3.0

8.3 Installation:

See Section 4.0, except for the following modifications:

Locations requiring preservative-treated wood for decay or termite resistance are described in Section 2304.11 of the 2000, 2003 and 2006 IBC, Sections R323, R324 of the 2000 IRC, Sections R319 and R320 of the 2003 IRC, Sections R319 and R320 of the 2006 IRC.

The fasteners used with Wolmanized EraWood[®] products must be in accordance with Section 2304.9.5 of the 2000, 2003 and 2006 IBC, Section R323.3 of the 2000 IRC, Section R319.3 of the 2003 and 2006 IRC, except that aluminum fasteners are also permitted.

8.4 Conditions Of Use:

See Section 5.0.

8.5 Evidence Submitted:

See Section 6.0.

8.6 Identification:

See Section 7.0.

TABLE 1—MINIMUM RETENTION REQUIREMENTS FOR WOLMANIZED ERAWOOD[®] PRODUCTS

Species	Minimum Actives pcf (kg/m ³) ¹	
	UC1, UC2, UC3A	UC3B
Species per Section 3.3.a with 0.24 pcf water repellent Southern, Mixed Southern, Radiata, Caribbean Pine	0.013 (0.21)	0.013 (0.21) with 0.24 pcf water repellent
Other species All species listed in Section 3.3	0.013 (0.21)	0.018 (0.29)

¹Retention is expressed in pounds of preservative actives per cubic foot (kilograms per cubic meter)

TABLE 2—TYPICAL APPLICATIONS FOR WOLMANIZED ERAWOOD[®] WOOD PRODUCTS

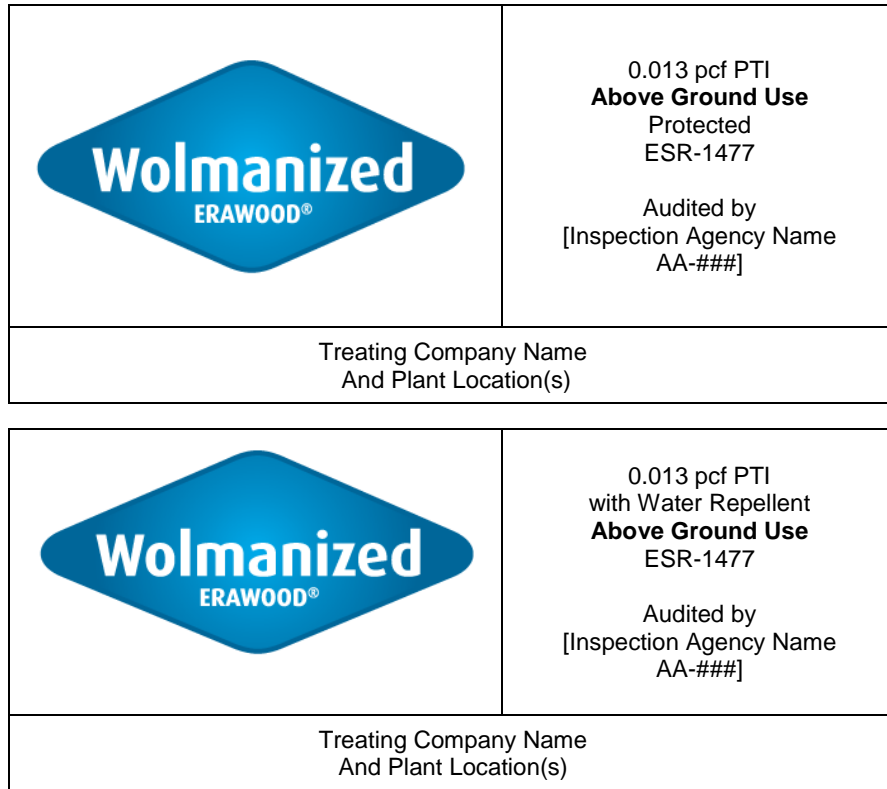
SERVICE CONDITIONS	USE ENVIRONMENT	AWPA USE CATEGORY ²	TYPICAL APPLICATIONS
Interior construction, above ground, dry	Continuously protected from weather or other sources of moisture	UC1 INTERIOR DRY	Interior construction - millwork and furnishings
Interior construction, above ground, damp	Protected from weather, but may be subject to sources of moisture	UC2 INTERIOR DAMP	Interior construction - interior beams, timbers, flooring millwork and sill plates
Exterior construction, above ground, coated and rapid water runoff	Exposed to all weather cycles, including intermittent wetting	UC3A ABOVE GROUND Protected	Exterior - coated millwork, siding and trim
Exterior construction, above ground, uncoated and poor water runoff Excludes above ground applications with ground contact type hazards (see Section 5.5)	Exposed to all weather cycles including intermittent wetting but with sufficient air circulation so wood can readily dry	UC3B ABOVE GROUND Exposed	Decking, joists and beams for decks and freshwater docks ¹ , railings, fence pickets, uncoated millwork

¹Joists and beams shall be treated to requirements for UC4A when they are difficult to maintain, repair or replace and are critical to the performance and safety of the entire system/construction.

²Refer to the AWPA 2016 Book of Standards, Standard U-1 Table 2-1 for a complete description of use category designations and typical applications.

TABLE 3—WOOD PRESERVATIVE TREATMENT LOCATIONS

LISTEES	WOOD PRESERVATIVE TREATMENT LOCATIONS
Everwood Treatment Company, Inc.	Spanish Fort, AL
Mid-States Wood Preservers	Simsboro, LA
Peterson Wood Treating	Superior, WI



1. Refer to Table 1 for minimum preservative retentions by end use and special requirements for wood species and water repellents.
2. Refer to Table 2 for service conditions and typical applications.
3. Refer to Table 3 for Treating Company Names and Plant Locations.
4. Trade name / logo is Wolmanized EraWood™ lumber.

FIGURE 1—SAMPLE PRODUCT LABELS, Wolmanized EraWood™ lumber¹