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®

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

1.1 Compliance with the following codes:

- 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:


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, Ci, 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/structure. 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 water system.

5.5.2.6. When treated wood is used in tropical climates.

6.0 EVIDENCE SUBMITTED


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 Residential Code® (2006 IRC)
- 2003 International Residential Code® (2003 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

<table>
<thead>
<tr>
<th>Species Per Section 3.3.a with 0.24 pcf water repellent Southern, Mixed Southern, Radiata, Caribbean Pine</th>
<th>Minimum Actives pcf (kg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC1, UC2, UC3A</td>
<td>0.013 (0.21)</td>
</tr>
<tr>
<td>UC3B</td>
<td>0.013 (0.21) with 0.24 pcf water repellent</td>
</tr>
<tr>
<td>Other species All species listed in Section 3.3</td>
<td>0.013 (0.21)</td>
</tr>
</tbody>
</table>

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

### TABLE 2—TYPICAL APPLICATIONS FOR WOLMANIZED ERAWOOD® WOOD PRODUCTS

<table>
<thead>
<tr>
<th>SERVICE CONDITIONS</th>
<th>USE ENVIRONMENT</th>
<th>AWPA USE CATEGORY</th>
<th>TYPICAL APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior construction, above ground, dry</td>
<td>Continuously protected from weather or other sources of moisture</td>
<td>UC1 INTERIOR DRY</td>
<td>Interior construction - millwork and furnishings</td>
</tr>
<tr>
<td>Interior construction, above ground, damp</td>
<td>Protected from weather, but may be subject to sources of moisture</td>
<td>UC2 INTERIOR DAMP</td>
<td>Interior construction - interior beams, timbers, flooring millwork and sill plates</td>
</tr>
<tr>
<td>Exterior construction, above ground, coated and rapid water runoff</td>
<td>Exposed to all weather cycles, including intermittent wetting</td>
<td>UC3A ABOVE GROUND Protected</td>
<td>Exterior - coated millwork, siding and trim</td>
</tr>
<tr>
<td>Exterior construction, above ground, uncoated and poor water runoff Excludes above ground applications with ground contact type hazards (see Section 5.5)</td>
<td>Exposed to all weather cycles including intermittent wetting but with sufficient air circulation so wood can readily dry</td>
<td>UC3B ABOVE GROUND Exposed</td>
<td>Decking, joists and beams for decks and freshwater docks¹, railings, fence pickets, uncoated millwork</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>LISTEES</th>
<th>WOOD PRESERVATIVE TREATMENT LOCATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Everwood Treatment Company, Inc.</td>
<td>Spanish Fort, AL</td>
</tr>
<tr>
<td>Mid-States Wood Preservers</td>
<td>Simsboro, LA</td>
</tr>
<tr>
<td>Peterson Wood Treating</td>
<td>Superior, WI</td>
</tr>
</tbody>
</table>

0.013 pcf PTI  
**Above Ground Use**  
Protected  
ESR-1477  
Audited by  
[Inspection Agency Name AA-###]

Treating Company Name  
And Plant Location(s)

0.013 pcf PTI  
**with Water Repellent Above Ground Use**  
ESR-1477  
Audited by  
[Inspection Agency Name AA-###]

Treating Company Name  
And Plant Location(s)

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™ lumber**