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

REPORT HOLDER:
ARCH TREATMENT TECHNOLOGIES, INC.
360 INTERSTATE NORTH PARKWAY, SUITE 450
ATLANTA, GEORGIA 30339

EVALUATION SUBJECT:
WOLMANIZED® OUTDOOR® PRESERVATIVE-TREATED WOOD

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

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 05 73.13—Preservative Wood Treatment

REPORT HOLDER:
ARCH TREATMENT TECHNOLOGIES, INC.
360 INTERSTATE NORTH PARKWAY, SUITE 450
ATLANTA, GEORGIA 30339
(678) 627-2000
www.wolmanizedwood.com
ptwinfo@wolmanizedwood.com

EVALUATION SUBJECT:
WOLMANIZED® OUTDOOR® PRESERVATIVE-TREATED WOOD

ADDITIONAL LISTEES:
ALLWEATHER WOOD LLC
715 DENVER AVENUE
LOVELAND, COLORADO 80537

AMELIA LUMBER COMPANY
POST OFFICE BOX 727
16951 LEIDIG STREET
AMELIA, VIRGINIA 23002

BESTWAY ENTERPRISES, INC.
3877 LUKER ROAD
CORTLAND, NY 13045

BRACKETT BROTHERS
4875 BRACKETT-LYLES DRIVE
MORGANTON, NORTH CAROLINA 28655

CENTRAL NEBRASKA WOOD PRESERVERS, INC.
POST OFFICE BOX 630
105 NORTH OWEN
SUTTON, NEBRASKA 68979

COX INDUSTRIES, INC.
860 CANNON BRIDGE ROAD
ORANGEBURG, SOUTH CAROLINA 29115

EAST TENNESSEE FOREST PRODUCTS
945 POTTERTOWN ROAD
MOSHEIM, TENNESSEE 37818

ESCUE WOOD PRESERVING, INC.
164 POST MILLWOOD ROAD
MILLWOOD, KENTUCKY 42762

EVERWOOD TREATMENT COMPANY
11349 HIGHWAY 31
SPANISH FORT, ALABAMA 36527

GREAT SOUTHERN ENTERPRISES
41815 HIGHWAY 195 SOUTH
HALEYVILLE, ALABAMA 35565

H. M. STAUFFER & SONS, INC.
33 GLENOLA DRIVE
LEOLA, PENNSYLVANIA 17540

HAGER WOOD PRESERVING, LLC
1211 JUDD AVENUE SW
WYOMING, MICHIGAN 49509

LITRELL BROTHERS LUMBER COMPANY
20345 HIGHWAY 31 NORTH
VINEMONT, ALABAMA 35179

MADISON WOOD PRESERVERS, INC.
216 OAK PARK ROAD
MADISON, VIRGINIA 22727

McCREADY LUMBER COMPANY, INC.
4801 WURNO ROAD
PULASKI, VIRGINIA 24301

MID-STATES WOOD PRESERVERS
147 SHELBY ROAD
SIMSBORO, LOUISIANA 71275-0560

NORtheast TREATERS, INC.
201 SPRINGFIELD ROAD
BELCHERTOWN, MASSACHUSETTS 01007-0802

PETerson WOOD TREATING, INC.
2 RANDY JOHNSON STREET, INDUSTRIAL PARK
SUPERIOR, WISCONSIN 54880

PHILLIPS BUILDING SUPPLY OF GULFPORT, INC.
9185 HIGHWAY 49
GULFPORT, MISSISSIPPI 39503
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)†
- Other Codes (see Section 8.0)

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

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® Outdoor® preservative-treated wood is used for wood members that are required by the code to be protected against decay and termites.

3.0 DESCRIPTION

3.1 General:
Wolmanized® Outdoor® preservative-treated wood products are recognized for use in aboveground, ground contact, and freshwater contact applications and resist attack by fungal decay, and subterranean termites, including Formosan termites.

Wolman® E brand wood preservatives are produced by Arch Treatment Technologies, Inc., and are used by independently owned and operated wood preserving plants listed in Table 3 of this report to preservative-treat wood products in accordance with Wolmanized® Outdoor® Wood Standards and Wolman® E Quality Control Procedures.

The attributes of the Wolmanized® Outdoor® preservative-treated wood products have been verified as conforming to the provisions of (i) ICC 700-2015 and 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 4.2 for limitations on termite-resistance use.

3.2 Preservative System:
Wolman® E wood preservatives are based on copper combined with the organic fungicides tebuconazole and propiconazole. There are four formulations, copper azole Type B (CA-B), copper azole Type C (CA-C), dispersed (micronized) copper azole Type B (µCA-B or MCA-B or MCA) and dispersed (micronized) copper azole Type C (µCA-C or MCA-C). The CA-B formulations contain copper and tebuconazole. The CA-C formulations contain copper, propiconazole and tebuconazole.

3.3 Wood Species:
Wolman® E CA-B and CA-C wood preservatives are used to preservative-treat the following materials:


b. Dimension 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.

Wolman® E µCA-B (MCA-B or MCA) and µCA-C (MCA-C) wood preservatives are used to preservative-treat the following materials:

a. Dimension lumber and timbers of the following species consisting of primarily sapwood: southern pine, ponderosa pine, red pine, radiata pine, and Caribbean pine.

b. Dimension lumber and timbers of the following species consisting of primarily heartwood: Western hemlock, hem-fir.

c. Lumber of nominal size 2-by-8 or less, for decking and specialty use of the species listed in (a) and (b) above.


e. Round and sawn building posts and building poles of Southern pine, ponderosa pine, red pine, hem-fir and Western hemlock.
Minimum preservative retention levels are provided in Table 1 of this evaluation report.

4.0 INSTALLATION

4.1 General:
Wolmanized® Outdoor® preservative-treated wood is installed as preservative-treated lumber, timbers and plywood in accordance with the requirements of the applicable code.

Arch Treatment Technologies’ 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’ instructions and this report.

4.2 Applications:
Wolmanized® Outdoor® preservative-treated wood products are recognized for use in locations where wood is used and/or in locations required by the code to be fungal decay or termite resistant. The treated wood products are recognized for use in aboveground, ground contact and freshwater 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 2304.12 of the 2015 IBC, Section 2304.11 of the 2012 and 2009 IBC, and Sections R317 and R318 of the IRC.

4.3 Fasteners:
Fasteners used with Wolmanized® Outdoor® preservative-treated (CA-B, CA-C) wood products must be in accordance with Section 2304.10.4 of the 2015 IBC, 2304.9.5 of the 2012 and 2009 IBC and Section R317.3 of the IRC. Aluminum fasteners and other aluminum building products (siding, flashing) must not be in direct contact with Wolmanized® Outdoor® preservative-treated (CA-B, CA-C) wood products.

Fasteners used with Wolmanized® Outdoor® preservative-treated μCA-B (MCA-B or MCA) and μCA-C (MCA-C) wood products must be in accordance with Section 2304.9.5 of the IBC and Section R317.3 of the IRC. Aluminum fasteners and other aluminum building products (siding, flashing) may be used in direct contact with Wolmanized® Outdoor® preservative-treated μCA-B (MCA-B or MCA) and μCA-C (MCA-C) wood products.

4.4 Structural:

4.4.1 Duration of Load: The maximum load duration factor allowed for structural members pressure-treated with Wolman® E wood preservatives must be 1.6 in accordance with Section 2.3 of the American Wood Council / American Forest & Paper Association (AWC/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® Outdoor® preservative-treated wood 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 Dimension lumber designated for “Decking Use” must be a maximum of 2 inches (51 mm) thick and 8 inches (203 mm) wide.

5.2 Use of the preservative-treated wood is limited to the type of applications noted in Section 4.2 of this report.

5.3 Wolman® E wood preservatives are not recognized for use in treating LVL, OSB, or FRTW wood products.

5.4 Surface treatment of field cuts must be in accordance with the recommendations of Arch Treatment Technologies, Inc.

5.5 The Wolmanized® Outdoor® treated wood products are limited to the wood species noted in Section 3.3 with minimum retentions noted in Table 1.

5.6 The treatment process followed by each of the treaters recognized in this report must comply with this report, Arch Treatment Technologies Wolmanized® Outdoor Wood Manual of Standard Practice.

5.7 Treatment of wood products is at the facilities of the treaters noted in Table 3, under a quality control program with inspections by ICC-ES and Timber Products Inspection Inc. (AA-664 and AA-696) or Southern Pine Inspection Bureau (AA-680).

5.8 The following physically above ground applications are required to be treated to ground contact (AWPA Use Category 4A) requirements.

5.8.1 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.

5.8.2 Components subject to hazards comparable to ground contact due to climate, artificial or natural processes or construction which include the following:

5.8.2.1 When there is a reasonable expectation that soil, vegetation, leaf litter or other debris may build up and remain in contact with treated wood.

5.8.2.2 When the construction itself, other structures or anticipated vegetation growth will not allow air to circulate underneath the construction and between decking boards.

5.8.2.3 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.

5.8.2.4 When treated wood is in direct contact with nondurable untreated wood or any older construction with any evidence of decay.

5.8.2.5 When treated wood is wetted on a frequent or recurrent basis such as on a freshwater floating dock or by a watering system.

5.8.2.6 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 with AWPA M22 and AWPA M23 compliance.

7.0 IDENTIFICATION

Wolmanized® Outdoor® preservative-treated lumber and plywood must be labeled or stamped with the ICC-ES name or mark, the name or logo of the inspection agency (Timber Products Inspection Inc. or Southern Pine Inspection Bureau) and the agency IAS accreditation number; the Wolmanized® Wood logo (see Figure 1) or the alternate trade name (see Table 3); the production plant identification; the preservative designation CA-B, CA-C μCA-B (MCA-B or MCA) or μCA-C (MCA-C); the intended end use; and the evaluation report number (ESR-1721). See Figure 1 for sample label.

8.0 OTHER CODES

In addition to the codes referenced in Section 1.0, the products described 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® Outdoor® preservative-treated wood products 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 and R324 of the 2000 IRC, and Sections R319 and R320 of the 2003 IRC and 2006 IRC.

Fasteners used with Wolmanized® Outdoor® preservative-treated wood products must be in accordance with Section 2304.9.5 of the 2000, 2003 and 2006 IBC, Section R323.3 of the 2000 IRC, and Section R319.3 of the 2003 IRC, Section R319.3 of the 2006 IRC, except that aluminum fasteners are also permitted in contact with Wolmanized® Outdoor® preservative-treated (µCA-B (MCA-B or MCA) and μCA-C or MCA-C) wood products.

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 PRESERVATIVE RETENTION REQUIREMENTS FOR WOLMANIZED® OUTDOOR® PRESERVATIVE-TREATED WOOD PRODUCTS BY END USE

<table>
<thead>
<tr>
<th>END USE</th>
<th>CA-B²</th>
<th>CA-C³</th>
<th>μCA-B² (MCA-B or MCA)</th>
<th>μCA-C³ (MCA-C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above ground - general use</td>
<td>0.10  (1.7)</td>
<td>0.060 (1.0)</td>
<td>0.060 (1.0)</td>
<td>0.050 (0.8)²</td>
</tr>
<tr>
<td>Above ground - decking &amp; specialties use</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Species listed in Section 3.3 (primarily sapwood)</td>
<td>0.080 (1.3)</td>
<td>0.060 (1.0)</td>
<td>0.060 (1.0)</td>
<td>0.050 (0.8)²</td>
</tr>
<tr>
<td>• Species listed in Section 3.3 (primarily heartwood)</td>
<td>0.21 (3.3)</td>
<td>0.15 (2.4)</td>
<td>0.15 (2.4)</td>
<td>0.14 (2.2)²</td>
</tr>
<tr>
<td>Ground contact - general use</td>
<td>0.21 (3.3)</td>
<td>0.15 (2.4)</td>
<td>0.15 (2.4)</td>
<td>0.14 (2.2)²</td>
</tr>
<tr>
<td>Ground contact - heavy duty</td>
<td>0.31 (5.0)</td>
<td>0.25 (4.0)²</td>
<td>0.23 (3.7)²</td>
<td>0.23 (3.7)²</td>
</tr>
<tr>
<td>Ground contact – wood foundation systems</td>
<td>0.31 (5.0)</td>
<td>0.25 (4.0)²</td>
<td>0.23 (3.7)²</td>
<td>0.23 (3.7)²</td>
</tr>
<tr>
<td>Ground contact – extreme duty</td>
<td>0.41 (6.6)</td>
<td>0.35 (5.7)²</td>
<td>0.33 (5.3)²</td>
<td>0.33 (5.3)²</td>
</tr>
</tbody>
</table>

²Retention is expressed in pounds of preservative per cubic foot (kilograms per cubic meter) of preservative actives.
³Minimum retention of CA-B and μCA-B (MCA-B or MCA) expressed as copper metal + tebuconazole.
⁴Minimum retention of CA-C and μCA-C (MCA-C) expressed as copper metal + tebuconazole + propiconazole.

²Retentions for these products differ from those listed in AWPA Standard U1.
<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</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 docks, railings, fence pickets, uncoated millwork</td>
</tr>
<tr>
<td>Ground contact or Fresh Water</td>
<td>Exposed to all weather cycles, including continuous or prolonged wetting</td>
<td>UC4A GROUND CONTACT General Use</td>
<td>Fence, deck, and guardrail posts, joists and beams for decks and freshwater docks</td>
</tr>
<tr>
<td>Ground contact or Fresh Water</td>
<td></td>
<td>UC4B GROUND CONTACT Heavy Duty</td>
<td>Permanent wood foundations, sawn and round building poles, wood used in salt water splash zones</td>
</tr>
<tr>
<td>Ground Contact or Fresh Water</td>
<td></td>
<td>UC4C GROUND CONTACT Extreme Duty</td>
<td>Land &amp; Freshwater piling, foundation piling, (severe decay areas)</td>
</tr>
</tbody>
</table>

1 Joists 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.

2 Refer to the AWPA 2017 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>
<th>TRADENAME¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allweather Wood LLC</td>
<td>Loveland, CO</td>
<td></td>
</tr>
<tr>
<td>Amelia Lumber Company</td>
<td>Amelia, VA</td>
<td></td>
</tr>
<tr>
<td>Bestway Enterprises, Inc.</td>
<td>Courtland, NY</td>
<td></td>
</tr>
<tr>
<td>(Treater Name Bestway of New York)</td>
<td>Stony Point, NC</td>
<td></td>
</tr>
<tr>
<td>Bestway South</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brackett Brothers</td>
<td>Morganton, NC</td>
<td></td>
</tr>
<tr>
<td>Central Nebraska Wood Preservers, Inc.</td>
<td>Sutton, NE</td>
<td></td>
</tr>
<tr>
<td>(Treater Name B &amp; T Preservers)</td>
<td>Oskaloosa, IA</td>
<td></td>
</tr>
<tr>
<td>Cox Industries, Inc.</td>
<td>Bonifay, FL</td>
<td>DuraPine®</td>
</tr>
<tr>
<td>[Treater Name Cox Wood Preserving]</td>
<td>Orangeburg, SC</td>
<td></td>
</tr>
<tr>
<td>Cove City Wood Preserving</td>
<td>Cove City, NC</td>
<td></td>
</tr>
<tr>
<td>Structural Wood Preserving</td>
<td>Coleridge, NC</td>
<td></td>
</tr>
<tr>
<td>East Tennessee Wood Preserving Company</td>
<td>Mosheim, TN</td>
<td></td>
</tr>
<tr>
<td>Escape Wood Preserving</td>
<td>Millwood, KY</td>
<td></td>
</tr>
<tr>
<td>Everwood Treatment Company</td>
<td>Spanish Fort, AL</td>
<td></td>
</tr>
<tr>
<td>Great Southern Enterprises</td>
<td>Haleyville, AL</td>
<td></td>
</tr>
<tr>
<td>H. M. Stauffer &amp; Sons, Inc.</td>
<td>Leola, PA</td>
<td></td>
</tr>
<tr>
<td>Hager Wood Preserving</td>
<td>Wyoming, MI</td>
<td></td>
</tr>
<tr>
<td>Littrell Brothers Lumber</td>
<td>Vinemont, AL</td>
<td></td>
</tr>
<tr>
<td>Madison Wood Preservers, Inc.</td>
<td>Madison, VA</td>
<td>MadWood™</td>
</tr>
<tr>
<td>McCready Lumber Company</td>
<td>Pulaski, VA</td>
<td></td>
</tr>
<tr>
<td>Mid-States Wood Preservers</td>
<td>Simsboro, LA</td>
<td></td>
</tr>
<tr>
<td>Northeast Treaters of Massachusetts</td>
<td>Belchertown, MA</td>
<td>WeatherShield®</td>
</tr>
<tr>
<td>Northeast Treaters of New York</td>
<td>Athens, NY</td>
<td></td>
</tr>
<tr>
<td>Peterson Wood Treating, Inc.</td>
<td>Superior, WI</td>
<td></td>
</tr>
<tr>
<td>Phillips Building Supply of Gulfport, Inc.</td>
<td>Gulfport, MS</td>
<td></td>
</tr>
<tr>
<td>Pitts Lumber Company</td>
<td>Saluda, VA</td>
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<tr>
<td>Robbins Wood Preserving</td>
<td>Gainesville, GA</td>
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<tr>
<td></td>
<td>Orlando, FL</td>
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<td></td>
<td>Rockwell, NC</td>
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<td></td>
<td>Thomaston, GA</td>
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<tr>
<td>Timber Wholesalers</td>
<td>Willmar, MN</td>
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</tr>
<tr>
<td>Tri-State Lumber Inc.</td>
<td>Fulton, MS</td>
<td></td>
</tr>
<tr>
<td>United Wood Preserving, LLC</td>
<td>Muscle Shoals, AL</td>
<td></td>
</tr>
</tbody>
</table>

¹All treatment locations may use the new Woolmanized® Outdoor® Wood trade name as noted in this report.

![FIGURE 1—SAMPLE PRODUCT LABEL](image)