

ICC-ES Evaluation Report**ESR-1721***

Reissued December 1, 2007

This report is subject to re-examination in two years.www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 06—WOOD AND PLASTICS
Section: 06070—Wood TreatmentCONRAD FOREST PRODUCTS
68765 WILDWOOD ROAD
NORTH BEND, OREGON 97459

REPORT HOLDER:

ARCH TREATMENT TECHNOLOGIES, INC.
5660 NEW NORTHSIDE DRIVE, SUITE 1100
ATLANTA, GEORGIA 30328
(678) 627-2000
www.wolmanizedwood.com
ptwinfo@archchemicals.comCOX INDUSTRIES, INC.
860 CANNON BRIDGE ROAD
ORANGEBURG, SOUTH CAROLINA 29115DANTZLER, INC.
7850 WEST BEAVER STREET
JACKSONVILLE, FLORIDA 32220

EVALUATION SUBJECT:

WOLMANIZED® OUTDOOR® PRESERVATIVE-TREATED
WOODEAST TENNESSEE FOREST PRODUCTS
945 POTTERTOWN ROAD
MOSHEIM, TENNESSEE 37818

ADDITIONAL LISTEES:

AMELIA LUMBER COMPANY
16951 LEIDIG STREET
AMELIA, VIRGINIA 23002ESCUE WOOD PRESERVING, INC.
164 POST MILLWOOD ROAD
MILLWOOD, KENTUCKY 42762ANDERSON BROTHERS LUMBER
8700 OTTERBURN ROAD
AMELIA, VIRGINIA 23002-0091EVERWOOD TREATMENT COMPANY
11349 HIGHWAY 31
SPANISH FORT, ALABAMA 36527BABB LUMBER COMPANY
6652 HIGHWAY 41 NORTH
RINGGOLD, GEORGIA 30736EXTERIOR WOOD, INC.
2685 INDEX STREET
WASHOUGAL, WASHINGTON 98671BESTWAY ENTERPRISES, INC.
3877 LUKER ROAD
CORTLAND, NEW YORK 13045FOLLEN WOOD PRESERVING COMPANY, INC.
1242 LANGLEY AVENUE
JACKSON, MISSISSIPPI 39204JOHN A. BIEWER COMPANY, INC.
812 SOUTH RIVERSIDE DRIVE
ST. CLAIR, MICHIGAN 48079GEORGIA-PACIFIC, LLC
19560 ALABAMA HIGHWAY 1272
ATHENS, ALABAMA 35614-6810BORICUA WOOD PROCESSING
ROAD 865 KM 5.5
TOA BAJA, PUERTO RICO 00952GREAT SOUTHERN ENTERPRISES
41815 HIGHWAY 195 SOUTH
HALEYVILLE, ALABAMA 35565BOWIE-SIMS-PRANGE, INC.
1440 HUTTON DRIVE
CARROLLTON, TEXAS 75006HATFIELD LUMBER COMPANY
139 POLK 29
HATFIELD, ARKANSAS 71945BRANDON WOOD PRESERVING
800 9TH AVENUE
BRANDON, SOUTH DAKOTA 57005HOGAN LUMBER COMPANY
325 TALLAHASSEE ROAD
ATHENS, GEORGIA 30604CABO ROJO TREATING
BARRIO BALLAJA, KM 1.1
CARRETERA 312-313, APARTADO 765
CABO ROJO, PUERTO RICO 00623HOOSIER WOOD PRESERVERS, INC.
3605 FARNSWORTH AVENUE
INDIANAPOLIS, INDIANA 46241

*Revised October 2009

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, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

H.M. STAUFFER & SONS, INC.
33 GLENOLA DRIVE
LEOLA, PENNSYLVANIA 17540-1902

KING TREATMENT
1364 MARCUM ROAD
ONEIDA, TENNESSEE 37841

LAVELLE
115 31ST STREET SOUTH
FARGO, NORTH DAKOTA 58108-2583

LONG LIFE TREATED WOOD
8150 OLD RAILROAD ROAD
HEBRON, MARYLAND 21830

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

McCREADY LUMBER COMPANY
4801 WURNO ROAD
PULASKI, VIRGINIA 24301

McFARLAND CASCADE POLE & LUMBER COMPANY
1640 EAST MARC STREET
TACOMA, WASHINGTON 98421

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

MIDWEST TIMBER, INC.
109 KRAUS ROAD
EDWARDSBURG, MICHIGAN 49112

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

PACIFIC WOOD PRESERVING
5601 DISTRICT BOULEVARD
BAKERSFIELD, CALIFORNIA 93313

PEACH STATE MANUFACTURING
4250 STACKS ROAD
COLLEGE PARK, GEORGIA 30349

PERMA-TREAT OF ILLINOIS
602 NORTH CARBON STREET
MARION, ILLINOIS 62959

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

PHILLIPS BUILDING SUPPLY OF GULFPORT, INC.
9185 HIGHWAY 49
GULFPORT, MISSISSIPPI 39505

PITTS LUMBER COMPANY
ROUTE 17
SALUDA, VIRGINIA 23149

PUERTO RICO WOOD TREATING INDUSTRIES
AVE. 65 DE INFANERIA KM. 7.0
CAROLINA, PUERTO RICO 00985

ROBBINS PRESERVING & MANUFACTURING
1301 NORTH NEBRASKA AVENUE
TAMPA, FLORIDA 33612

ROBINSON LUMBER & TREATING
20110 220TH STREET
McGRATH, MINNESOTA 56350

ROCKY TOP BUILDING PRODUCTS, INC.
1050 NORTH MAIN STREET
ROCKY MOUNT, VIRGINIA 24151

SIMMONS WOOD PRODUCTS
47235 WEST LOUIS JOHNSON DRIVE
MARICOPA, ARIZONA 85299

SOUTH HOUSTON LUMBER
607 DUMONT STREET
SOUTH HOUSTON, TEXAS 77587

SOUTHERN WOOD TREATMENT
441 GAWTHROPE DRIVE
WINCHESTER, KENTUCKY 40391

TIMBER WHOLESALERS
357 COUNTY ROAD 5 SW
WILLMAR, MINNESOTA 56201

TRUEGUARD, LLC
2801 NORTH STATE STREET
UKIAH, CALIFORNIA 95482

UNITED WOOD PRESERVING, LLC
338 EAST WASHINGTON AVENUE, SUITE D
MUSCLE SHOALS, ALABAMA, 35661

UTAH WOOD PRESERVING COMPANY
1959 SOUTH 1100 WEST
WOODS CROSS, UTAH 84087

US FENCE
720 NORTH MAIN STREET
BULLS GAP, TENNESSEE 37711

VARN WOOD PRODUCTS, LLC
107 NORTH BRANTLEY AVENUE
HOBOKEN, GEORGIA 31542

WESTERN WOOD PRODUCTS
181 NEW MEXICO STATE HIGHWAY 555
RATON, NEW MEXICO 87740

WOOD PRESERVERS, INC.
15939 HISTORY LAND HIGHWAY
WARSAW, VIRGINIA 22572

WOODTREATERS, INC.
224 SAWDUST ROAD
ROCKY POINT, NORTH CAROLINA 28457

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*[®] (IBC)
- 2006 *International Residential Code*[®] (IRC)
- Other Codes (see Section 8.0)

Properties evaluated:

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

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.

3.2 Preservative System:

Wolman® E wood preservatives are waterborne, copper-tebuconazole preservative systems used for wood members that are required by the code to be protected against fungal decay or termites, or where such protection is desired.

Wolman® E wood preservatives are based on copper combined with the organic fungicides tebuconazole and propiconazole. There are three formulations, copper azole Type B (CA-B), copper azole Type C (CA-C), and dispersed Type C (μCA-C). The CA-B formulation contains copper and tebuconazole. The CA-C formulation contains copper, propiconazole and tebuconazole. The dispersed version is designated with a μ and has the copper in a micronized form.

3.3 Wood Species:

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

- Dimensional lumber and timbers of the following species consisting of primarily sapwood: southern pine, ponderosa pine, red pine, radiata pine, Scots pine, and Caribbean pine.
- Dimensional lumber and timbers of the following species consisting of primarily heartwood: Douglas fir, western hemlock, hem-fir.
- Lumber, of nominal size of 2-by-8 or less, for decking and specialty use of the species listed in (a) and (b), above.
- Southern pine and Douglas fir plywood.
- Round and sawn posts and building poles of southern pine, ponderosa pine, red pine, Douglas fir, hem-fir and western hemlock.
- Round timber piling, southern pine, ponderosa pine, and red pine.

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

Wolman® E μCA-C wood preservative is used to preservative-treat the following materials:

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

- Dimensional lumber and timbers of the following species consisting of primarily heartwood: Western hemlock, hem-fir.
- Lumber of nominal size 2-by-8 or less, for decking and specialty use of the species listed in (a) and (b) above.
- Southern pine and Douglas-fir plywood.
- Round and sawn building posts and building poles of Southern pine, ponderosa pine, red pine, hem-fir and Western hemlock.
- Round timber piling, Southern pine, ponderosa pine and red pine.

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 Section 2304.11 of the IBC, and Sections R323 and R324 of the IRC.

4.3 Fasteners:

Fasteners used with Wolmanized® Outdoor® preservative-treated wood products must be in accordance with Section 2304.9.5 of the IBC and Section R319.3 of the IRC.

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 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® 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 Dimensional 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 Treatment Standards WOW-07 and WOD-07, and the Quality Control Manual for Treatment with Wolman® E Preservative.
- 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 Timber Products Inspection Inc. (AA-664 and AA-696) or Southern Pine Inspection Bureau (AA-680).

6.0 EVIDENCE SUBMITTED

Data in accordance with Appendix A, Copper-Azole Wood Preservative Treatment Systems (formerly AC143), of the ICC-ES Acceptance Criteria for Proprietary Wood Preservative Systems—Common Requirements for Treatment Process, Test Methods and Performance (AC326), dated February, 2008.

7.0 IDENTIFICATION

Wolmanized® Outdoor® preservative-treated lumber and plywood must be labeled or stamped with the name of the inspection agency (Timber Products Inspection Inc. or Southern Pine Inspection Bureau); the Wolmanized® Wood logo (see Figure 1); the production plant identification; the preservative designation CA-B, CA-C or μ CA-C; minimum retention; 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:

- 2003 *International Building Code*® (2003 IBC)
- 2003 *International Residential Code*® (2003 IRC)
- 2000 *International Building Code*® (2000 IBC)
- 2000 *International Residential Code*® (2000 IRC)
- 1997 *Uniform Building Code*™ (UBC)
- BOCA® *National Building Code/1999* (BNBC)
- 1999 *Standard Building Code*® (SBC)

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 and 2003 IBC, Sections R323 and R324 of the 2000 IRC, Sections R319 and R320 of the 2003 IRC, Section 2304 of the SBC, Section 2311 of the BNBC, and Section 2306 of the UBC.

Fasteners used with Wolmanized® Outdoor® preservative-treated wood products must be in accordance with Section 2304.9.5 of the 2000 and 2003 IBC, Section R323.3 of the 2000 IRC, Section R319.3 of the 2003 IRC, Section 2306.3 of the SBC, Section 2311.3.3 of the BNBC, and Section 2304.3 of the UBC.

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

END USE	MINIMUM ACTIVES RETENTION ¹ pcf (kg/m ³)		
	CA-B ²	CA-C ³	µCA-C ³
Above ground - general use	0.10 (1.7)	0.06 (1.0)	0.05 (0.8)
Above ground - decking & specialties use			
• Species listed in Section 3.3 (primarily sapwood)	0.08 (1.3)	0.06 (1.0)	0.05 (0.8)
• Species listed in Section 3.3 (primarily heartwood)	0.21(3.3)	0.15 (2.4)	0.14 (2.2)
Ground contact - general use	0.21 (3.3)	0.15 (2.4)	0.14 (2.2)
Ground contact - critical structural members	0.31 (5.0)	0.25 (4.0) ⁴	0.23 (3.6)
Ground contact - wood foundation systems	0.31 (5.0)	0.25 (4.0) ⁴	0.23 (3.6)
Foundation and freshwater piling, round	0.41 (6.6)	0.35 (5.7) ⁴	0.33 (5.3)

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

²Minimum retention of CA-B expressed as copper metal + tebuconazole.

³Minimum retention of CA-C and µCA-C expressed as copper metal + tebuconazole + propiconazole.

⁴Retentions for these products differ from those listed in AWPA Standard U1.

TABLE 2—TYPICAL APPLICATIONS FOR WOLMANIZED® OUTDOOR® PRESERVATIVE-TREATED WOOD PRODUCTS

SERVICE CONDITIONS	AWPA USE CATEGORY ¹	TYPICAL APPLICATIONS
Above ground, interior dry uses	UC1	Interior construction, furnishings and millwork
Above ground, interior damp uses	UC2	Interior beams, timbers, flooring, millwork and sill plates
Above ground, exterior uses coated and rapid water runoff	UC3A	Coated millwork, siding, spindles, fascia and trim
Above ground - general use	UC3B	Decking, rails, spindles, trim and fascia, framing, flooring, sill plates, trellises, gazebos, fencing
Ground contact - general use	UC4A	Deck support posts, fence posts, retaining walls
Ground contact - critical structural	UC4B	Permanent wood foundations, sawn and round building poles
Ground contact or freshwater uses—critical structural components	UC4C	Land and freshwater foundation piling


¹µCA-C has not been evaluated by and is not listed in the American Wood Protection Association (AWPA) Standards.

TABLE 3—WOOD PRESERVATIVE TREATMENT LOCATIONS

LISTEES	WOOD PRESERVATIVE TREATMENT LOCATIONS
Amelia Lumber Company	Amelia, VA
Anderson Brothers Lumber	Amelia, VA
Babb Lumber	Ringgold, GA Vincennes, IN
Bestway Enterprises, Inc. [Treater Name Bestway of New York] Bestway of Gouverneur Bestway of New England Bestway of Pennsylvania Bestway South	Courtland, NY Gouverneur, NY S. Lancaster, MA Cresco, PA Stony Point, NC
John A Biewer Company	Seneca, IL Lansing, MI Prentice, WI
Boricua Wood Processing	Tora Baja, PR
Bowie-Sims-Prange, Inc.	Carrollton, TX
Brandon Wood Preserving	Brandon, SD
Cabo Rojo Treating	Cabo Rojo, PR
Conrad Forest Products	Northbend, OR Arbuckle, CA Rainier, OR
Cox Industries, Inc. [Treater Name Cox Wood Preserving] Cove City Wood Preserving Structural Wood Preserving Sumter Wood Preserving Cox of VA	Orangeburg, SC Cove City, NC Coleridge, NC Sumter, SC Blackstone, VA

TABLE 3—WOOD PRESERVATIVE TREATMENT LOCATIONS (Continued)

LISTEES	WOOD PRESERVATIVE TREATMENT LOCATIONS
Dantzer, Inc.	Jacksonville, FL
East Tennessee Forest Products	Mosheim, TN
Escue Wood Preserving	Millwood, KY
Everwood Treatment Company	Spanish Fort, AL
Exterior Wood, Inc.	Washougal, WA
Follen Wood Preserving Company	Jackson, MS
Georgia-Pacific, LLC	Athens, AL
Great Southern Enterprises	Haleyville, AL
Hatfield Lumber Company	Hatfield, AR
Hogan Lumber Company	Athens, GA
Hoosier Wood Preservers, Inc.	Indianapolis, IN
King Treatment	Oneida, TN
Lavelle Company	Fargo, ND
Long Life Treated Wood	Hebron, MD
Madison Wood Preservers, Inc.	Madison, VA
McCready Lumber Company	Pulaski, VA
McFarland Cascade Pole & Lumber Company	Tacoma, WA
Mid-States Wood Preservers	Simsboro, LA
Midwest Timber	Edwardsburg, MI
Northeast Treaters of Massachusetts Northeast Treaters of New York	Belchertown, MA Athens, NY
Pacific Wood Preserving [Treater Name Pacific Wood Preserving of Bakersfield, Inc.] Arizona Wood Preserving, Inc. Nevada Wood Preserving, Inc. Pacific Wood Preserving of Oregon	Bakersfield, CA Eloy, AZ Silver Springs, NV Sheridan, OR
Peach State Manufacturing	College Park, GA
Perma-Treat of Illinois	Marion, IL
Peterson Wood Treating	Superior, WI
Phillips Building Supply of Gulfport, Inc.	Gulfport, MS
Pitts Lumber Company	Saluda, VA
Puerto Rico Wood Treating Industries, Inc. [Treater Name Puerto Rico Wood Treating] Gulf Treating Southern Wood Treating	Carolina, PR Puerto Nuevo, PR Guayanilla, PR
Robbins Wood Preserving & Manufacturing	Tampa, FL Gainesville, GA Orlando, FL Rockwell, NC Thomaston, GA
Rocky Top Building Products, Inc. [Treater Name TSO of Virginia] TSO of Maryland TSO of Ohio	Rocky Mount, VA Hagerstown, MD Fombell, PA
Robinson Lumber & Treating	McGrath, MN
Simmons Wood Products	Maricopa, AZ
South Houston Lumber	S. Houston, TX
Southern Wood Treatment	Winchester, KY
H.M. Stauffer & Sons, Inc.	Leola, PA
Timber Wholesalers	Willmar, MN
United Wood Preserving, LLC	Muscle Shoals, AL
Utah Wood Preserving Company	Woods Cross, UT
TrueGuard, LLC [Treater name TrueGuard, LLC, or Allweather Wood]	Ukiah, CA Loveland, CO Washougal, WA White City, OR
US Fence	Bulls Gap, TN
Varn Wood Products, LLC	Hoboken, GA
Western Wood Products	Raton, NM
Wood Preservers, Inc.	Warsaw, VA
Woodtreaters, Inc.	Rocky Point, NC

 <p>Wood Treated Right™</p>	<p>Retention (pcf) / Preservative Designation¹ End Use²</p> <p>ESR-1721</p> <p>Quality Monitored by [Inspection Agency Name AA-###]</p>
<p>Treating Company Name And Plant Location(s)³</p>	

¹ Refer to Table 1 for Minimum Retentions and Preservative Designations

² Refer to Table 2 for AWPA Use Category Designations and End Uses

³ Refer to Table 3 for Treating Company Names and Plant Locations

FIGURE 1—SAMPLE PRODUCT LABEL