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**DIVISION: 06—WOOD AND PLASTICS**  
**Section: 06070—Wood Treatment**

**REPORT HOLDER:**

**WOOD TREATMENT PRODUCTS, INC.**  
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**EVALUATION SUBJECT:**

**ES+WOOD™ PRESERVATIVE-TREATED WOOD**

**ADDITIONAL LISTEES:**

**AMELIA LUMBER COMPANY, INC.**  
POST OFFICE BOX 727  
16951 LEIDIG STREET  
AMELIA, VIRGINIA 23002  
(804) 561-2155

**NORTHERN CROSSARM CO., INC.**  
POST OFFICE BOX 34  
11278 STATE HIGHWAY 129  
CHIPPEWA FALLS, WISCONSIN 54729  
(715) 723-4100

**SOUTHERN WHITE WOOD PRODUCTS, INC.**  
POST OFFICE BOX 2528  
BLUE RIDGE, GEORGIA 30513  
(706) 632-2003

**WESTERN ENVIRO-SAFE TREATERS, LLC**  
1990 WEST CENTRAL AVENUE  
EAGAR, ARIZONA 85925  
(928) 333-2751

## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

**Properties evaluated:**

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

## 2.0 USES

ES+Wood™ preservative-treated wood is used for wood members in aboveground applications that are required by the code to be protected against decay and termites.

## 3.0 DESCRIPTION

### 3.1 General:

ES+Wood™ preservative-treated wood products are recognized for use in aboveground applications and to resist attack by fungal decay and subterranean termites.

ES+Wood™ wood preservatives are produced by Wood Treatment Products, Inc., and are used by the wood-preservative treatment facilities listed in Table 3 of this report to preservative-treat wood products, in accordance with the Quality Control Manual for Wood Treatment Products, Inc.

### 3.2 Preservative System:

EnviroSafe Plus® wood preservatives are comprised of disodium octaborate tetrahydrate (DOT) and a proprietary polymer binder. The treated wood is first pressure-treated with DOT and then a second pressure treatment process impregnates the wood with the proprietary polymer binder.

### 3.3 Wood Species:

ES+Wood™ preservative-treated wood may consist of the following preservative-treated materials:

- a. Dimensional lumber and timber, consisting primarily of sapwood, of southern pine.
- b. Lumber of southern pine, of a nominal size of 2-by-8 or less, for decking and specialty use.

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

## 4.0 INSTALLATION

### 4.1 General:

ES+Wood™ preservative-treated wood is installed as preservative-treated lumber and timber in accordance with the requirements of the applicable code.

Wood Treatment Products, 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 Wood Treatment Products, Inc., instructions and this report.

### 4.2 Applications:

ES+Wood™ preservative-treated wood products may be used in locations where wood is permitted and/or in locations

required by the code to be fungal decay or termite-resistant. The treated wood products are limited to use in aboveground 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 R319 and R320 of the IRC.

#### 4.3 Fasteners:

Fasteners used with ES+Wood™ preservative-treated wood products must be in accordance with Section 2304.9.5 of the IBC and Section R319.3 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 ES+Wood™ preservative-treated wood 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 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 ES+Wood™ preservative-treated wood products described in this report comply with, or are suitable alternatives 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 types of applications noted in Section 4.2 of this report.

5.3 Surface treatment of field cuts must be in accordance with the recommendations of Wood Treatment Products, Inc.

5.4 ES+Wood™ preservative-treated wood products are limited to the wood species noted in Section 3.3 and the minimum retention noted in Table 1.

5.5 ES+Wood™ preservative-treated wood products must not be used in areas with Formosan termites.

5.6 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, Inc. (AA-680).

#### 6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Disodium Octaborate Tetrahydrate (DOT) Wood Preservative Treatment Systems (AC62), dated December 2006.

6.2 Data in accordance with 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

ES+Wood™ preservative-treated wood products must be labeled with the name of the inspection agency (Timber Products Inspection Inc. or Southern Pine Inspection Bureau, Inc.); product name (ES+Wood™) or logo (see Figure 1); the treatment company name and plant location (refer to Table 3); the name of the preservative components or designation; minimum retention; the intended end use; and the evaluation report number (ESR-1081). A sample label is shown in Figure 1 of this report.

**TABLE 1—MINIMUM PRESERVATIVE RETENTION REQUIREMENTS FOR ES+WOOD™ WOOD PRODUCTS BY END USE**

END USE	MINIMUM TOTAL RETENTION, pcf (kg/m <sup>3</sup> )	MINIMUM COMPONENTS RETENTION, pcf (kg/m <sup>3</sup> )	
		B <sub>2</sub> O <sub>3</sub>	Polymer
Above ground UC1, UC2, UC3A, UC3B	0.50 (8.0)	0.50 (8.0)	Note 2

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

<sup>2</sup>The treated wood is first pressure-treated with B<sub>2</sub>O<sub>3</sub> and then a second pressure treatment process impregnates the wood with the proprietary polymer binder. The retention of the polymer is determined by the minimum requirement as noted in the Wood Treatment Products, Inc, quality control manual.

**TABLE 2—TYPICAL APPLICATIONS FOR ES+WOOD™ WOOD PRODUCTS**

SERVICE CONDITIONS	AWPA USE CATEGORY	TYPICAL APPLICATIONS
Interior construction, above ground, dry	UC1	Interior construction - millwork and furnishings
Interior construction, above ground, damp	UC2	Interior construction - interior beams, timbers, flooring, millwork and sill plates
Exterior construction, above ground, coated and rapid water runoff	UC3A	Exterior - coated millwork, siding and trim
Exterior construction, above ground, uncoated and poor water runoff	UC3B	Decking, guard rails, spindles, flooring, deck joist, beams and framing, deck posts above grade support on concrete piers with a steel bracket, trim and fascia, sill plates, fence rails, trellises and gazebos

**TABLE 3—WOOD PRESERVATIVE TREATMENT LOCATIONS**

LISTEES	WOOD PRESERVATIVE TREATMENT LOCATIONS
Amelia Lumber Company, Inc.	Amelia, VA
Northern Crossarm Co., Inc.	Chippewa Falls, WI
Southern White Wood Products, Inc.	Blue Ridge, GA
Western Enviro-Dafe Treaters, LLC	Eagar, AZ



**FIGURE 1—SAMPLE PRODUCT LABEL, ES+WOOD™ PLUS**