

ICC-ES Evaluation Report

ESR-1851*

Reissued August 1, 2011

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

REPORT HOLDER:

VIANCE, LLC
200 EAST WOODLAWN ROAD, SUITE 350
CHARLOTTE, NORTH CAROLINA 28217
(704) 522-0825
www.treatedwood.com

EVALUATION SUBJECT:**ECOLIFE™ II PRESERVATIVE-TREATED WOOD****ADDITIONAL LISTEES:**

CULPEPER WOOD PRESERVERS
15487 BRAGGS CORNER ROAD
CULPEPER, VIRGINIA 22701

SUNBELT FOREST PRODUCTS CORPORATION
HIGHWAY 17 AND SPIRIT LAKE ROAD
BARTOW, FLORIDA 33830

1.0 EVALUATION SCOPE**Compliance with the following codes:**

- 2012 and 2009 *International Building Code*® (IBC)
- 2012 and 2009 *International Residential Code*® (IRC)
- Other Codes (see Section 8.0)

Properties evaluated:

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

2.0 USES

Ecolife™ II preservative-treated wood is used in aboveground applications that are required by the code to be protected against decay and termites.

3.0 DESCRIPTION**3.1 General:**

Ecolife™ II preservative-treated wood products are recognized for use in aboveground applications and to

resist attack by fungal decay and subterranean termites, including Formosan termites.

Viance Ecovance™ brand wood preservative is produced by Viance, LLC, and is used by the wood-preservative treatment facilities listed in Table 3 of this report to preservative-treat wood members and plywood in accordance with the Viance, LLC, Standard Ecolife™ II-2011.

3.2 Preservative System:

Ecovance™ brand wood preservative is a DCOIT fungicide wood preservative containing 4, 5-Dichloro-2-n-octyl-4-isothiazolin-3-one and the insecticide Imidacloprid. The Ecovance fungicide is diluted in water or Ecovance work solution. The Imidacloprid insecticide is provided as a water-soluble concentrate.

3.3 Materials:

The following products may be treated with the Ecolife™ II preservative system:

- a. Dimensional lumber and timbers of the following species consisting of primarily sapwood: southern pine, mixed southern pine, radiata pine, Patula pine, Caribbean pine, red pine, Ponderosa pine, eastern white pine, and German Scots pine.
- b. Dimensional lumber of the following species consisting primarily of heartwood: hem-fir, hem-fir North, eastern hemlock, subalpine fir, Douglas fir, redwood, and western red cedar.
- 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 must comply with the values shown in Table 1 of this evaluation report.

4.0 INSTALLATION**4.1 General:**

Ecolife™ II preservative-treated wood is installed as preservative-treated lumber and timbers in accordance with the requirements of the applicable code.

Viance, LLC, 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 Viance, LLC, instructions and this report.

***Revised April 2012**

4.2 Applications:

Ecolife™ II preservative-treated wood products may be used in aboveground locations where wood is permitted and/or in aboveground locations required by the code to be resistant to fungal decay or termites. 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 R317 and R318 of the IRC.

4.3 Fasteners:

Fasteners used with Ecolife™ II preservative-treated wood products must be in accordance with Section 2304.9.5 of the 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 Ecolife™ II 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 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 Ecolife™ II 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 Use of the preservative-treated wood is limited to the types of applications noted in Section 4.2.
- 5.2 Surface treatment of field cuts must be in accordance with the recommendations of Viance, LLC.
- 5.3 The Ecolife™ II preservative-treated wood products are limited to the wood species noted in Section 3.3 and minimum retention levels noted in Table 1.
- 5.4 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).

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with Appendix C, DCOIT Wood Preservative Systems (Formerly AC314), of the ICC-ES Acceptance Criteria for Proprietary Wood Preservative Systems-Common Requirements for Treatment Process, Test Methods and Performance (AC326), dated February 2012.
- 6.2 Quality control documentation in accordance with Section 5.0 of AC326 with AWPA M22 compliance.

7.0 IDENTIFICATION

Ecolife™ II preservative-treated lumber must be labeled with the name of the inspection agency (Timber Products Inspection Inc. or Southern Pine Inspection Bureau, Inc.); the product name (Ecolife™ II) or logo (see Figure 1); the treatment company name and plant location (refer to Table 3); the name of the preservative components; the intended end use; and the evaluation report number (ESR-1851). A sample label is shown as Figure 1.

8.0 OTHER CODES

8.1 Evaluation Scope:

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 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 Ecolife™ II 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.

8.2 Uses:

See Section 2.0.

8.3 Description:

See Section 3.0.

8.4 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, Sections R319 and R320 of the 2003 and 2006 IRC.

Fasteners used with Ecolife™ II 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, Section R319.3 of the 2003 and 2006 IRC, except that aluminum fasteners are also permitted.

8.5 Conditions of Use:

See Section 5.0.

8.6 Evidence Submitted:

See Section 6.0.

8.7 Identification:

See Section 7.0.

TABLE 1—MINIMUM PRESERVATIVE RETENTION REQUIREMENTS FOR ECOLIFE™ II WOOD PRODUCTS BY END USE

| END USE | MINIMUM TOTAL RETENTION, pcf (kg/m ³) | MINIMUM COMPONENTS RETENTION ¹ , pcf (kg/m ³) | |
|--------------------------------------|---|--|--------------|
| | | DCOIT | Imidacloprid |
| Above ground UC1, UC2, UC3A, UC3B | 0.0187 (0.3) | 0.0187 (0.3) | Note 2 |

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

²The Imidacloprid insecticide is blended with the Ecovance brand wood preservative solution.

TABLE 2—TYPICAL APPLICATIONS FOR ECOLIFE™ II 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, guardrails, spindles, flooring, deck joists, beams and framing, deck posts above grade support on concrete piers with a steel bracket, trim and fascia, sill plates, fence rails, trellises, gazebos |

TABLE 3—WOOD PRESERVATIVE TREATMENT LOCATIONS

| LISTEES | WOOD PRESERVATIVE TREATMENT LOCATIONS |
|--------------------------|--|
| Culpeper Wood Preservers | Streator, IL Columbia, SC Culpeper, VA Fredericksburg, VA |
| Sunbelt Forest Products | Bartow, FL |

TABLE 4—ALTERNATE BRAND NAMES BY INDIVIDUAL LISTEES FOR LUMBER AND PLYWOOD TREATED WITH ECOLIFE™ II

| COMPANY | PRIVATE BRAND NAME |
|--------------------------|--------------------|
| Culpeper Wood Preservers | Prodigy, Pure Pine |
| Sunbelt Forest Products | Tropical Decking |
| Viance, LLC | Ecolife II |



Ecolife™ II- 08

ABOVE GROUND USE ONLY

ESR – 1851

Wood Treating Company

City, State

Quality Audited by:
[Inspection Agency Name
AA####]

FIGURE 1—SAMPLE PRODUCT LABEL

(Product must also be labeled with the minimum retention as specified in Table 1)