

HOOVER TREATED WOOD PRODUCTS, INC

TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: www.frtw.com or 1-800-TEC-WOOD (832-9663)

CERTIFICATION

PYRO-GUARD[®] Interior Fire-Retardant-Treated Wood

PART 1 - General Product Information

- A. Lumber, plywood, and Engineered Wood Products (EWP) bearing the **PYRO-GUARD[®]** mark has a flame spread rating of 25 or less (Class A) when tested in accordance with ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials." **PYRO-GUARD[®]** fire-retardant-treated wood shows no evidence of significant progressive combustion when the test is extended for an additional 20-minute period. In addition, the flame front does not progress more than 10½ feet beyond the centerline of the burners at any time during the test. The flame spread and smoke developed index for each species and product are classified by Underwriters Laboratories Inc. (UL).
- B. **PYRO-GUARD[®]** fire-retardant-treated wood is manufactured under the independent third-party inspection of Underwriters Laboratories Inc. (UL) Follow-Up Service and each piece shall bear the UL classified mark indicating the extended 30 minute ASTM E84 test.
- C. **PYRO-GUARD[®]** shall be kiln dried after treatment (KDAT). The kiln drying process is monitored by Underwriters Laboratories, Inc. (UL) and the UL mark shall appear on the label.
- D. **PYRO-GUARD[®]** shall be produced in accordance with UL Evaluation Report ER7002-01 (UL ER7002-01), latest version.
- E. **PYRO-GUARD[®]** meets the performance requirements of AWWA U1, Commodity Specification H for Use Category UCFA and AWWA C20/C27 (Type A, HT).
- F. **PYRO-GUARD[®]** is listed on the Department of Defense (DoD) Qualified Products List (QPL) and meets the requirements of MIL-L-19140-E as a Type 1 fire-retardant treatment for lumber and plywood.

PART 2 - Fire-Retardant Treatment

- A. Treatment shall be **PYRO-GUARD[®]** manufactured by Hoover Treated Wood Products, Inc.
- B. **PYRO-GUARD[®]** is an interior "Type A" fire-retardant with individual surface burning characteristics for the species and products listed under UL Certifications.
- C. Structural performance of **PYRO-GUARD[®]** fire-retardant-treated wood has been tested in accordance with ASTM D5664 for lumber and ASTM D5516 for plywood. Evaluation of plywood data is in accordance with ASTM D6305. Evaluation of lumber data is in accordance with ASTM D6841. The resulting design value and span rating adjustments are published in UL ER7002-01, which includes evaluation of high temperature (HT) strength testing for roof applications.
- D. **PYRO-GUARD[®]** fire-retardant-treated wood is kiln dried after treatment (KDAT) to maximum moisture content of 19% for lumber and 15% for plywood.
- E. **PYRO-GUARD[®]** does not contain VOC's, urea formaldehyde or formaldehyde, halogens, sulfates, chlorides, or ammonium phosphate.
- F. Plywood treated with **PYRO-GUARD[®]** shall be manufactured under US Product Standards - PS 1 or PS 2. Panels shall have a minimum bond durability of Exposure 1.
- G. Grade marked lumber treated with **PYRO-GUARD[®]** shall be in accordance with PS 20.

PART 3 - Execution

- A. **PYRO-GUARD[®]** fire-retardant-treated wood used in structural applications shall be installed in accordance with the conditions and limitations listed in UL ER7002-01.
- B. **PYRO-GUARD[®]** fire-retardant-treated wood shall be installed in compliance with the requirements of the applicable building codes and product recommendations.
- C. **PYRO-GUARD[®]** shall not be installed in areas where, in service, it is exposed to precipitation, direct wetting, or condensation.
- D. As with untreated wood, avoid exposure to precipitation during shipping, storage or installation. Apply a water resistive barrier or underlayment over dry sheathing as soon as practical to avoid precipitation on the panel. Panels that get wet should be allowed to dry before covering, or be replaced.

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