

HOOVER TREATED WOOD PRODUCTS, INC.

TECHNICAL NOTE

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

SPECIFICATION for PYRO-GUARD® Interior Fire Retardant Treated Wood

PART 1 – GENERAL

1.01 PRODUCT IDENTIFICATION

- A. Lumber and plywood bearing the **PYRO-GUARD®** mark has a flame spread rating of 25 or less (Class A) when tested in accordance with ASTM E 84, “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 shall not progress more than 10½ feet beyond the centerline of the burners at any time during the test. The flamespread 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 E 84 test.
- C. **PYRO-GUARD®** shall be labeled kiln dried after treatment (KDAT). Timber Products Inspection, Inc. (TP) shall monitor the process and the TP mark shall appear on the label.
- D. **PYRO-GUARD®** shall be produced in accordance with ICC Evaluation Service Report 1791 (ESR-1791) latest version.
- E. **PYRO-GUARD®** meets the performance requirements of AWPA U1, Commodity Specification H for Use Category UCFA and AWPA 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 – PRODUCTS

2.01 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 evaluated in accordance with ASTM D 5664 for lumber and ASTM D 5516 for plywood. Evaluation of plywood data is in accordance with ASTM D 6305. Evaluation of lumber data is in accordance with ASTM D 6841. The resulting design value and span rating adjustments are published in ICC Evaluation Report ESR-1791, which includes evaluation of high temperature (**HT**) strength testing for roof applications.
- D. **PYRO-GUARD®** Interior 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 Standard 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

3.01 INSTALLATION

- A. **PYRO-GUARD®** fire retardant treated wood used in structural applications shall be installed in accordance with the conditions and limitations listed in ESR-1791 as issued by the ICC Evaluation Service, Inc.
- 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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