

# HOOVER TREATED WOOD PRODUCTS, INC.

## *TECHNICAL NOTE*

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

### SPECIFICATION GUIDE for *PYRO-GUARD*<sup>®</sup> Interior Fire Retardant Treated Wood

#### PART 1 – GENERAL

##### 1.01 PRODUCT IDENTIFICATION

- A. All lumber and plywood specified to be interior fire retardant treated wood shall be pressure impregnated with *PYRO-GUARD*<sup>®</sup> which has a flame spread rating of 25 or less when tested in accordance with ASTM E 84, “Standard Test Method for Surface Burning Characteristics of Building Materials”. *PYRO-GUARD*<sup>®</sup> fire retardant treated wood shall show 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.
- B. Fire retardant treated lumber and plywood shall be 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. Each piece 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.

#### PART 2 – PRODUCTS

##### 2.01 FIRE RETARDANT TREATMENT

- A. Treatment shall be *PYRO-GUARD*<sup>®</sup> manufactured by Hoover Treated Wood Products, Inc.
- B. Structural performance of fire retardant treated wood shall be evaluated in accordance with ASTM D 5664 for lumber and ASTM D 5516 for plywood. Evaluation of plywood data shall be in accordance with ASTM D 6305. The resulting design value and span rating adjustments shall be published in ICC Evaluation Service Report (ESR)-1791 issued by the ICC Evaluation Service, Inc. which includes evaluation of high temperature (HT) strength testing for roof applications.
- C. “Type A” Interior fire retardant treated lumber and plywood shall have equilibrium moisture content of not over 28% when tested in accordance with ASTM D 3201 at 92% relative humidity.
- D. Interior fire retardant treated wood shall be kiln dried after treatment to a maximum moisture content of 19% for lumber and 15% for plywood.
- E. The fire retardant formulation shall be free of halogens, sulfates, chlorides, arsenic, chromium, ammonium phosphate, formaldehyde, and urea formaldehyde.
- F. Provide lumber of the appropriate grade and species as specified by the design criteria of the intended application after consideration of design value adjustments.
- G. Provide plywood of the appropriate size, grade and species as specified by the design criteria of the intended application after consideration of span rating adjustments.

##### 2.02 PRODUCT SUBSTITUTION

No substitutions permitted.

#### PART 3 – EXECUTION

##### 3.01 FIELD CUTS

- A. Lumber: Do not rip or mill fire retardant treated lumber. Cross cuts, joining cuts, and drilling holes are permitted.
- B. Plywood: Fire retardant treated plywood may be cut in any direction.

##### 3.02 APPLICATION

- A. *PYRO-GUARD*<sup>®</sup> fire retardant treated lumber and plywood 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. Treated wood shall not be installed in areas where it is exposed to precipitation, direct wetting, or regular condensation.
- C. Exposure to precipitation during shipping, storage and installation shall be avoided. If material does become wet, it shall be replaced or permitted to dry to a maximum moisture content of 19% for lumber and 15% for plywood prior to covering or enclosure by wallboard, roofing or other construction materials.