FlamePRO® Architectural Specifications

Specifications - FlamePRO® Interior Fire-Retardant-Treated Wood

PART 1 - General Product Information

A. Lumber and plywood bearing the **FLAMEPRO®** 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." **FLAMEPRO®** 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 101/2 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. **FLAMEPRO**® fire-retardant-treated wood is manufactured under the independent third-party inspection of Underwriters Laboratories Inc. (UL), Timber Products (TP), or Southern Pine Inspection Bureau (SPIB). Follow-Up Service and each piece shall bear the UL, TP, or SPIB classified mark indicating the extended 30 minute ASTM E84 test.
- C. **FLAMEPRO**® shall be kiln dried after treatment (KDAT). The kiln drying process is monitored by Underwriters Laboratories, Inc. (UL) Timber Products (TP), or Southern Pine Inspection Bureau (SPIB). and the UL TP, or SPIB mark shall appear on the label.
- D. **FLAMEPRO**® shall be produced in accordance with International Code Council (ICC) Evaluation Service Report (ESR) ESR-4244.
- E. **FLAMEPRO**® FRTW products comply with AWPA UC-1 and UCFA use category systems, FlamePro treatment process meets the AWPA T1 standard and FlamePro chemical has been analyzed to confirm the formulation meets AWPA P50 standard.

F. FLAMEPRO® UL GREENGUARD GOLD CERTIFICATION

The FlamePRO Fire Retardant has undergone rigorous testing and met stringent standards for low volatile organic compound (VOC) emissions. Products certified to this criteria are suitable for use in schools, offices, and other sensitive environments.

PART 2 - Fire-Retardant Treatment

- A. Treatment shall be **FLAMEPRO®** manufactured by Koppers Performance Chemicals
- B. **FLAMEPRO**® 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 **FLAMEPRO®** 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 D3201. Evaluation of lumber data is in accordance with ASTM D6305. The resulting design value and span rating adjustments are published in ICC ESR-4244, which includes evaluation of high temperature (HT) strength testing for roof applications.
- D. **FLAMEPRO**® fire-retardant-treated wood is kiln dried after treatment (KDAT) to maximum moisture content of 19% for lumber and 15% for plywood.
- E. FLAMEPRO® does not contain VOC's, urea formaldehyde or formaldehyde, halogens, sulfates, or chlorides.
- F. Plywood treated with **FLAMEPRO**® 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 **FLAMEPRO®** shall be in accordance with PS 20.

PART 3 - Execution

- A. **FLAMEPRO**® fire-retardant-treated wood used in structural applications shall be installed in accordance with the conditions and limitations listed in ICC ESR-4244.
- B. **FLAMEPRO**® fire-retardant-treated wood shall be installed in compliance with the requirements of the applicable building codes and product recommendations.
- C. **FLAMEPRO**® 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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