

HOOVER TREATED WOOD PRODUCTS, INC.

TECHNICAL NOTE

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

Specification for *EXTERIOR FIRE-X*[®] Fire Retardant Treated Wood

PART 1 – GENERAL

1.01 PRODUCT IDENTIFICATION

- A. Lumber and plywood designated *EXTERIOR FIRE-X*[®] has a flame spread index of 25 or less (Class A) when tested in accordance with ASTM E 84, “Standard Test Method for Surface Burning Characteristics of Building Materials”.
- B. *EXTERIOR FIRE-X*[®] fire retardant treated wood shows no evidence of significant progressive combustion when the test is extended for an additional 20 minute period. The flame front does not progress more than 10½ feet beyond the centerline of the burners at any time during the test. Surface burning characteristics for each species and product are listed by Underwriters Laboratories (UL).
- C. *EXTERIOR FIRE-X*[®] has been evaluated for flame spread with no increase in the listed classification after ASTM D 2898 “Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing”.
- D. *EXTERIOR FIRE-X*[®] lumber and plywood is manufactured under the independent third party inspection of Underwriters Laboratories Follow-Up Service and each piece bears the UL classified mark indicating the extended ASTM E 84 test, and no increase in classification after ASTM D2898.
- E. *EXTERIOR FIRE-X*[®] is labeled kiln dried after treatment (KDAT). Timber Products Inspection, Inc. (TP) provides inspection of the drying process and the Timber Products mark appears on the label.
- F. *EXTERIOR FIRE-X*[®] meets the performance requirements of AWPA U1, Specification H for Use Category UCFB (fire protection, exterior, above ground) and AWPA C20/C27 (Exterior Type).
- G. *EXTERIOR FIRE-X*[®] is available with a blue colorant or branding as required for identification by the nuclear power industry, and Department of Defense (DOD) Mil Spec requirements, Type II (Exterior Type).
- H. *EXTERIOR FIRE-X*[®] is listed on the Qualified Products List (QPL) for Mil Spec Mil-L 19140-E

PART 2 – PRODUCTS

2.01 FIRE RETARDANT TREATMENT

- A. *EXTERIOR FIRE-X*[®] is manufactured by Hoover Treated Wood Products, Inc.
- B. *EXTERIOR FIRE-X*[®] shall be kiln dried to maximum moisture content of 19% for lumber and 15% for plywood.
- C. Kiln drying after treatment shall be monitored by Timber Products Inspection,
- D. *EXTERIOR FIRE-X*[®] lumber and plywood shall use design value adjustments and span ratings as published by the Hoover Treated Wood Products Inc.
- E. The fire retardant formulation is free of halogens, sulfates, chlorides, ammonium phosphate, and contains no added urea formaldehyde.
- F. Lumber and plywood of the appropriate size, grade and species and bond durability shall be specified by the design criteria for the intended application.
- G. Plywood shall have a minimum bond durability of Exposure 1 in accordance with US Product Standard PS 1, Construction and Industrial Plywood.

2.02 PRODUCT SUBSTITUTION

EXTERIOR FIRE-X[®] is a proprietary product of Hoover Treated Wood Products Inc. 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. *EXTERIOR FIRE-X*[®] fire retardant treated lumber and plywood used in structural applications shall be applied according to the lumber and plywood strength tables provided by the manufacturer.
- B. *EXTERIOR FIRE-X*[®] is a leach resistant fire retardant treatment and may be installed with direct exposure to precipitation; however, it cannot be substituted for preservative treated wood.