

FLAME TECH™

Specification for FlameTech™ Fire Retardant Treated Wood

AWPA U1, Commodity Spec H, UCFA (Interior FRTW) Lumber & Plywood

Section 1 – Code Compliance & Product Identification

1. Lumber and plywood bearing the FlameTech™ Interior FRTW mark has a flame spread rating of 25 feet or less and smoke developed of 450 or less (Class-A) when tested in accordance with ASTM E84 “Surface Burning Characteristics of Building Materials”; exhibits no evidence of significant progressive combustion when the test is extended for an additional 20-minutes and the flamefront progression is no more than 10-1/2 feet in accordance with (IAW) ASTM E2768 “Extended Duration Surface Burning Characteristics of Building Materials”. The flamespread and smoke developed index for each species and product are classified by Intertek and meets Section 2303.2 of the IBC (International Building Code) and Section R802.1.5 [R802.1.3] of the IRC (International Residential Code).
2. FlameTech™ Interior FRTW is manufactured at the facility of the treater(s) noted in Table 5 of Intertek Code Compliance Research Report (CCRR) 1088 under a quality-control program with inspections by Intertek Testing Services NA, Inc. (AA-647) and each treated article shall bear the *Intertek ETL* mark as required by Section 2303.2.4 of the IBC indicating compliance with Section 2303.2 of the IBC (i.e. ASTM E84 & ASTM E2768 ~ Extended 30-Minute Test).
3. FlameTech™ Interior FRTW shall be kiln-dried after treatment (KDAT) to a maximum moisture content of 19% for lumber and 15% for plywood. Intertek shall monitor the KDAT process and their *ETL* mark shall appear on the permanent product stamp applied during manufacturing.
4. FlameTech™ Interior FRTW shall be produced IAW Intertek CCRR-1088 - latest version.
5. FlameTech™ Interior FRTW meets the performance requirements of AWPA U1, Commodity Specification H for Use Category UCFA as an Interior Fire Retardant Treated Wood product.

Section 2 – Fire Retardant Treatment & Applications

1. Treatment shall be FlameTech™ as manufactured by Performance Formulation Solutions, LLC. (PFS).
2. FlameTech™ FRTW is an Interior, Class-A fire retardant treated wood product with individual surface burning characteristics for the species and products listed under Section 3.1 of Intertek CCRR-1088.
3. Structural performance of FlameTech™ Interior FRTW has been evaluated IAW ASTM D5664 for lumber and ASTM D5516 for plywood. Evaluation of plywood data is calculated IAW ASTM D6305. Evaluation of lumber data is calculated IAW ASTM D6841. The resulting design value and span rating adjustments are published in Intertek CCRR-1088, which includes evaluation of strength testing for roof sheathing applications up to 170°F (77°C).
4. Plywood shear walls. FlameTech™ Interior FRTW Plywood may be used as a component of a shear wall following the AWC Special Design Provisions for Wind and Seismic (SDPWS) Section 4.2 and 4.3, or Sections 2306.2 and 2306.3 of the IBC, in either case, the nominal panel thickness is increased by 1/8” inch for the tabulated allowable shear values.
5. Fire-Resistance Rated Walls. FlameTech™ FRTW lumber and plywood have been tested IAW ASTM E119 as components of fire-resistance rated wall assemblies for 1-hour and 2-hour ratings. See Intertek Listing Report “FRCT – FlameTech” on the Intertek Directory of Building Products.
6. Fasteners, including nuts and washers, shall be hot-dipped galvanized IAW with FlameTech™ published installation instructions.
7. FlameTech™ Interior FRTW does not contain any VOCs (volatile organic compounds), urea formaldehyde, halogens, sulfates or chlorides.
8. Solid dimension lumber treated with FlameTech™ shall be IAW US Product Standard (PS) 20; plywood treated with FlameTech™ shall be manufactured IAW PS 1 or PS 2, and have a minimum bond durability of Exposure 1.

Section 3 – Product Handling & Installation

1. FlameTech™ Interior FRTW used in all applications shall be installed IAW the manufacturer's published installation instructions, the requirements of the building code(s) and product recommendations, and Intertek CCRR-1088.
2. FlameTech™ Interior FRTW shall not be installed in areas where exposed to continuous wetting, precipitation, or condensation. Apply a water resistive barrier or underlayment over dry sheathing to avoid exposure to moisture.
3. Exposure to precipitation during storage shall be avoided. If material does become wet, it shall be replaced or permitted to dry (moisture content = 19% lumber and 15% plywood) prior to covering or permanent enclosure.

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