

D-Blaze® Fire Retardant Treated Wood (FRTW)



D-Blaze® treated lumber and plywood is designed for interior applications where fire retardant construction materials are specified or required by the building code, and D-Blaze is highly effective at controlling the spread of flame and reducing smoke development as a result of fire.

D-Blaze is pressure-treated FRTW, meaning the fire retardant chemicals are impregnated deep into the wood and locked into the wood fibers for lasting protection. By comparison, spray-on fire-retardant applications are inherently vulnerable because the chemical treatment is limited to the wood's surface, so the protection can be compromised by scratches and abrasions that can easily occur during normal distribution and job-site handling. Even with spray-on treatments that are applied on the job-site, variations in treatment can result in poorly protected areas of the project. Additionally, not all spray-on products have passed the same **extended 30-minute** ASTM E 84 test for flame spread.

Strategic Benefits of Using D-Blaze FRTW in Commercial Construction

Fire-retardant materials are required in construction specifically to increase the time for people to evacuate and reach safety. D-Blaze FRTW slows the combustion cycle by forming a protective layer of char, hindering flame spread and smoke formation, increasing evacuation time and potentially reducing damages and subsequent repair costs.

The following applications of D-Blaze FRTW may also reduce construction costs and/or insurance costs:

- D-Blaze FRTW for the roof's trusses and decks may qualify a masonry-wall building as "non-combustible"
- D-Blaze wood roof decking may be accepted in lieu of parapet walls in multi-family dwellings
- D-Blaze FRTW wood partitions may allow for an increase in square footage and lower insurance rates
- D-Blaze FRTW is commonly accepted by building codes for partition walls, store fronts, fixtures and roof construction in shopping centers
- D-Blaze FRTW may reduce or even eliminate the requirement for installed sprinkler systems

Product Features

- **UL® Class A (Class 1) with FR-S Rating**
- **Code Compliant under ICC ESR-2645**
- Very Low Smoke Rating
- Workable with common wood-working tools

50-Year Limited Warranty

- Interior Type A High-Temperature (HT) FRTW per AWPA UCFA
- Low-corrosivity
- Low-hygroscopicity
- No VOC's or Formaldehyde
- Non-blooming

Common Applications

- **Roofs & Attics:** trusses, plywood sheathing, decks and rafters
- **Walls:** load-bearing & partition, plywood sheathing and studs
- **Flooring:** subfloors, joists, plywood sheathing, studs and trusses
- **Other structural uses:** stairways, steps, beams, blocking, and paneling

Testing and Approvals

- D-Blaze[®] FRT wood meets or exceeds the guidelines for testing construction materials as set forth and/or established by the following authorities and specifications:



Testing

- ASTM E 84
- ASTM D 3201
- ASTM D 5516
- ASTM D 5664

Approvals

- ICC-ES ESR 2645
- Underwriters Laboratories[®] Classified**
UL[®] Class A (Class 1) with FR-S Rating
- CAN/ULC S102 & S102.2
- National Fire Protection Association (NFPA 255)**
- City of Los Angeles Research Report: RR 24502**
- New York City Building Code (MEA Numbers 406-87 and 407-87)**
- National Building Code of Canada**
- AWPA Standardized (P50, U1, UCFA)**
Interior Type A High-Temperature (HT) FRTW
- California Department of Forestry and Fire Protection**
CSFM BML Listings for D-Blaze Plywood and Lumber

Testing Regimens

- For each approved wood species, D-Blaze FRTW exhibited a flame spread and smoke developed index of 25 or less under ASTM E 84 flame tunnel testing for an extended 30-minute duration without showing evidence of significant progression of combustion. D-Blaze has a very low smoke rating.
- D-Blaze FRTW has been tested by independent laboratories following industry standards ASTM D 5516 & ASTM D 5664 to develop strength reduction factors for various use conditions, including roof temperatures of up to 150° F for lumber and 170° F for plywood. Consult ICC ESR-2645 for D-Blaze Lumber and Plywood Strength Design Adjustment Factors.
- D-Blaze FRTW has been tested for hygroscopicity in accordance with ASTM D 3201, resulting in classification of D-Blaze as an interior Type A (HT) fire-retardant wood as defined in AWPA Standards (UCFA).
- D-Blaze FRTW is regularly inspected by UL[®] and also ALSC-accredited agencies such as TP and SPIB to ensure quality control of both treatment levels and kiln-drying after treatment.

Job Site Storage

D-Blaze FRTW must be kept dry during transit and on the job-site by covering the top of the bundle, storing the material under shelter, elevating the bundle from ground contact, and allowing for air circulation around the wood. Roof sheathing should be covered as soon as practical after installation. If D-Blaze FRTW becomes wet during construction, allow to dry before enclosure or covering with roofing material.

Non-Corrosive

The corrosivity of D-Blaze FRTW is lower than the maximum allowed by industry and governmental standards. Hot-dipped galvanized steel fasteners or stainless-steel fasteners are recommended, and all fasteners should meet or exceed local code requirements.

Safety & Handling

D-Blaze pressure-treated products do not contain any EPA-listed hazardous chemicals and are easy to work with, requiring no special precautions other than routine wood working safety procedures. When working with or machining D-Blaze pressure-treated wood, the following minimum safety precautions should be followed:

- Wear gloves to protect against splinters.
- Wear a dust mask when machining any wood to reduce the inhalation of wood dusts.
- Wear appropriate eye protection to reduce the potential for eye injury from wood particles and flying debris during machining.
- Wash thoroughly with mild soap and water after working with treated wood
- Wood scraps should be disposed of in accordance with local waste management regulations.
- Refer to the latest D-Blaze Material Safety Data Sheet (MSDS).



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ESR 2645
Pressure Treated FRTW



UL[®] FR-S Classified
Plywood & Lumber



CANADA CAN/ULC[®] S102
CANADA CAN/ULC[®] S102.2

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