

# D-BLAZE IS A PRESSURE-IMPREGNATED FRTW - NOT A SPRAY ON

Will not chip or flake during construction and handling.

**D-Blaze® Fire Retardant Treated Wood (FRTW) is suited for interior applications where fire retardant construction materials are specified or required by building codes.**

D-Blaze® treated lumber and plywood is highly effective in controlling the spread of flame and smoke development caused by fire, and show no evidence of significant progressive combustion after 30 minutes exposure to flame.

- **Low-corrosivity & Low-hygroscopicity**
- **Non-blooming with No VOC's or Formaldehyde**
- **Workable with common wood-working tools**
- **50-Year Limited Warranty**

## TESTING AND APPROVALS

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

- **Underwriters Laboratories® Classified**  
*UL® Class A (Class 1) with FR-S Rating*
  - *CAN/ULC S102 & S102.2*
- **National Fire Protection Association (NFPA 255)**
- **NYC 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*
- **ICC-ES ESR 2645**
- **California Department of Forestry and Fire Protection**  
*CSFM BML Listings for D-Blaze Plywood and Lumber*
- **City of Los Angeles Research Report: RR 24502**

## BUILD IN ECONOMICAL FIRE PROTECTION

D-Blaze® FRTW treated wood is Compliant with 2009 model building codes under AWPA standards and or ICC ESR-2645. D-Blaze FRTW exhibits a flame spread and smoke developed index of 25 or less under ASTM E 84 flame tunnel testing of a 30-minute duration without evidence of significant progression combustion. Tested for hygroscopicity in accordance with ASTM D 3201, resulting in classification as an interior Type A (HT) fire-retardant wood as defined in AWPA Standards P50, U1, UCFA.

## HOW TO SPECIFY D-BLAZE® FRTW LUMBER AND PLYWOOD

To assure structural integrity in roof areas of high temperature and humidity, D-Blaze span and strength design adjustment factors have been determined by independent third parties in accordance with ASTM D 5516 for plywood and ASTM D 5664 for lumber. Extended specifications can be found on the Product Information page of Treatedwood.com and at ARCAT.com.

All D-Blaze FRT lumber and plywood:

- shall be pressure-treated with D-Blaze® fire retardant to meet Underwriters Laboratories FR-S rating or a flame spread and smoke index rating denoting a surface-burning characteristic rating of 25 or less for flame spread and smoke developed.
- shall bear the Underwriters Laboratories label or stamp attesting to the FR-S rating or flame spread and smoke index rating, or the ESR 2645 Building Code Approval, and to the fact that it also meets the American Wood Protection Association (AWPA) P50, U1, UCFA for interior Type A (HT) use.
- shall be kiln-dried to a maximum moisture content of 19% for lumber and 15% for plywood.
- shall be kept dry at all times during transit, job site storage and construction.

\*Note: Designer may wish to specify lower moisture content for cabinet and millwork. All structural design calculations shall be based on the D-Blaze Strength Design Factor Tables as published in our Technical Specifications at [www.treatedwood.com](http://www.treatedwood.com) or in ICC ESR-2645.

## WHAT IF D-BLAZE FRTW IS EXPOSED TO RAIN ON THE JOBSITE?

D-Blaze FRTW should be kept dry during transit, storage and while on jobsite. Since the degree of rain exposure would vary in every case, if D-Blaze gets wet during transit, storage or on jobsite, then the D-Blaze FRTW must always be dried to original specifications before being covered or enclosed.

## HOW LONG WILL THE TREATMENT LAST?

D-Blaze® fire retardant treated wood is designed for above ground use that is sheltered from precipitation and direct wetting. Under these conditions, D-Blaze chemicals will not leach out and will remain stable and effective.

**UNDERWRITERS LABORATORIES:** Each piece of D-Blaze lumber and plywood is stamped with the mark of Underwriters Laboratories, Inc (UL) substantiating third party confirmation of flame spread and smoke developed index. Companies may only use the UL mark on or in connection with products that have been investigated by UL and found to be in compliance with UL's requirements. The UL Building Materials Directory has listed over a dozen species of lumber and several species of plywood for fire retardant treatment with D-Blaze.

**CHEMICAL FORMULATION AND APPLICATION:** D-Blaze is formulated and then applied by means of pressure treatment in treating plants. **Unlike field applied surface coatings, D-Blaze fire retardant treated wood is produced under a quality control program with inspections by Underwriters Laboratories, Inc (UL) and Timber Products Inspection (TP).**

## DOES D-BLAZE FRTW QUALIFY FOR AN HOURLY RATING IN THE CODES?

FRTW has been awarded a UL classification for surface burning characteristics, and by itself, does not have a resistance rating in hours. Hourly ratings are assigned to wall, roof, deck or door assemblies. D-Blaze FRTW can be used as a component in these assemblies in structures where untreated wood is not allowed.

For example, the Gypsum Association "Fire Resistance Design Manual" shows a one hour wall or partition assembly (WP 3605) that has wood studs covered by 5/8" Type X gypsum board with specified nailing and positioning of the panels. This assembly could be used for interior, non-bearing partitions, requiring a one hour rating in a non-combustible structure if the studs were fire retardant treated wood. In a similar manner, by substituting FRTW for untreated wood, other one and two hour wall and ceiling assemblies can be used in non-combustible type buildings. The model codes also permit use of ceiling assemblies with the top membrane omitted where only unused attic space is above.

## CAN D-BLAZE BE GLUED?

D-Blaze can be used as a substrate for floor tile, counter tops, cabinets, etc. Solvent based glues are recommended. If water based adhesives are used, test first to assure compatibility.

## CAN D-BLAZE BE INSTALLED ON CONCRETE?

D-Blaze can be used as an interior sill plate material on concrete/masonry with the use of an impervious moisture barrier (sill sealer) and as approved by code officials.

**CAN HOURLY RATED WOOD ROOF TRUSS ASSEMBLIES****USE D-BLAZE FRTW?**

Testing has provided effective and competitive designs for one hour rated floor/ceiling and roof/ceiling metal plate connected wood trusses. Unlike earlier designs, the one hour rating can now be achieved with only one layer of 5/8" Type C gypsum wallboard applied directly to the bottom chord of the truss. Various types of blocking and connectors are used in these constructions developed by the Truss Plate Institute and several independent companies.

Fire retardant treated wood can be used in place of untreated wood in any of these designs. FRTW construction will enable the use of these assemblies in many building construction types that do not permit untreated wood. These new construction assemblies provide greater savings than ever before when FRTW construction is substituted for hourly rated steel or concrete construction. Check your local building code for specific allowed uses.

**DOES D-BLAZE TREATMENT AFFECT THE STRENGTH OF THE WOOD?**

Yes. D-Blaze FRTW has been tested by independent laboratories following industry standards ASTM 5516 & ASTM 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. Specifiers, architects and designers should consult and adhere to the Strength Design Adjust Factors and Span Ratings published in the current D-Blaze product literature.

**WHERE CAN I FIND LEED INFORMATION ON D-BLAZE® ?**

All product and technical information pertinent to the Viance chemicals is available for download at [www.Treatedwood.com](http://www.Treatedwood.com). The chemicals in D-Blaze are free of VOCs and formaldehyde and Viance provides a letter affirming that fact on the Product Information page. Sustainable forestry programs such as FSC or SFI are managed entirely by the companies that procure and resell wood through their distribution networks. All FSC/SFI information would be provided by these lumber suppliers.

**CAN I APPLY A PAINT OR STAIN TO MY D-BLAZE TREATED WOOD?**

No. We do not recommend this because it could compromise the performance of the D-Blaze in terms of flame spread rating and smoke generation should a fire occur.

**WHAT FASTENERS SHOULD I USE WITH D-BLAZE?**

National and local building codes change frequently. Viance recommends that local building codes always be consulted for lists of currently approved fasteners and fastener systems. Currently, hot-dipped galvanized steel or stainless steel fasteners are recommended.

**WHAT IS COVERED BY THE D-BLAZE 50-YEAR WARRANTY?**

The D-Blaze 50-year warranty covers structural failure caused by a reduction in strength below the recommended design application values of D-Blaze treated wood products due to exposure to roof temperatures of 150° F (lumber) and 170° F (plywood).

**CAN D-BLAZE FRTW BE CUT OR SURFACED AFTER TREATMENT?**

Cutting to length, drilling, and diagonal cuts as well as light sanding are permitted. Exposed areas are not required to be field coated. Ripping dimensional lumber is not allowed.

- **Cutting of lumber to length** (cross-cutting and end cuts) are allowed. Holes and joints such as tongue and groove, bevel, scarf and lap are also allowed.
- **Ripping of lumber** along the length, such as ripping a 2x4 into 2x2's is not permitted. Similarly, cutting of stair stringers after treatment should not be done because the effect is similar to ripping.
- **Milling (resurfacing) of lumber** is not allowed. If special shapes or thickness are required, milling should be done prior to treatment.
- **Cutting of plywood in any direction** is allowed without restriction.
- **Light sanding of lumber or plywood** is permitted to remove raised grain or to prepare for finishing. Resurfacing or shaping should be done before treatment.
- **End coating is not required**

**TIPS ON USE**

Proper handling procedures should be followed when using D-Blaze® lumber and plywood.

- D-Blaze® wood should not be installed where it will be exposed to precipitation, direct wetting, or in contact with the ground.
- When storing D-Blaze® wood, the material should be kept off the ground and covered to shield it from precipitation.
- When installing D-Blaze® FRT lumber and plywood it is important to utilize the design value adjustments on our technical guide.
- D-Blaze® plywood should be spaced and fastened as recommended in "APA Engineered Wood Construction Guide" (Form E30), published by APA-The Engineered Wood Association.
- Do not burn treated wood.
- Do not use pressure-treated chips or sawdust as mulch.
- Dispose of treated wood in accordance with local, state and federal regulations.

**SAFETY AND 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 pressure-treated wood, the following safety precautions should be followed with all treated wood products:

- Wear gloves to protect against splinters
- Wear a dust mask to reduce the inhalation of wood dusts
- Wear appropriate eye protection.
- Wash thoroughly with mild soap and water.

Refer to the latest D-Blaze Safety Data Sheet (SDS) at [www.Treatedwood.com](http://www.Treatedwood.com).

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AWPA U1  
P50, UCFAESR 2645  
Pressure Treated FRTWUL® FR-S Classified  
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Viance Treated Wood Solutions

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are available at [Treatedwood.com](http://Treatedwood.com)  
and [ARCAT.com](http://ARCAT.com).**

D-Blaze® Fire Retardant treated wood products are produced by independently owned and operated pressure treating wood facilities. \* See D-Blaze 50-Year Limited Warranty for details at [Treatedwood.com](http://Treatedwood.com). D-Blaze® and Viance® are registered trademarks of Viance, LLC. AWPA is a registered trademark of the American Wood Protection Association. UL is a registered trademark of the Underwriters Laboratories. All logos and trademarks are exclusive property of their respective owners.

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