

D-Blaze® Fire Retardant Treated Wood (FRTW)



Available 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.

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 UFCA
- Low-corrosivity
- Low-hygroscopicity
- No VOC's or Formaldehyde
- Non-blooming

D-Blaze® Treated Products are:

- Compliant with major building codes (2009 IBC/IRC).
- Tested and certified by Underwriters Laboratories® (UL).
- Quality Control assured by third-party inspection agencies such as TP, SPIB and UL.
- UL® Classified as Class A (Class 1) FRTW with an FR-S Rating.
- Compliant with 2009 model building codes under ICC ESR-2645.
 - For the species listed in Table 5, 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 progressive combustion. D-Blaze has one of the lowest smoke ratings in the industry.
- 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.
- Protected by a **50-Year** Limited Warranty. Visit www.TreatedWood.com for warranty details.

Common Applications

- Roof and floor trusses
- Roof decks and sheathing
- Interior load-bearing walls
- Exterior load-bearing walls protected by a weather barrier
- Subflooring and Paneling
- Studs and Joists
- Beams and purlins
- Blocking and furring

Structural Properties

D-Blaze® FRT wood 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.



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

Approvals

- ICC ESR-2645
- City of Los Angeles RR 24502
- CAN/ULC S102 ▪ CAN/ULC S102.2
- National Fire Protection Association (255)
- New York City Building Code (MEA Numbers 406-87 and 407-87)
- National Building Code of Canada

How to Specify D-Blaze® FRT Lumber and Plywood

To ensure 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 at www.TreatedWood.com and at www.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 ICC 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.

All structural design calculations shall be based on the D-Blaze® Strength Design Factor Tables as published in ICC ESR-2645.

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 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.



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