



Meet fire codes and get the benefits of wood construction

Dricon® FRT lumber and plywood are chemically treated to reduce the spread of flames and generation of smoke

Complies with
National Model
Codes

40-Year Roof
Warranty

40-Year
Preservative
Warranty

Truss
Manufacturers
Warranty

Meets Current
AWPA Standards

EPA-Registered
Protection
Against Termites
& Fungal Decay



Since 1981, Dricon® fire retardant treated (FRT) wood has performed as intended in countless structures around the world, providing a convenient and economical building alternative. Pressure-treated for protection in the event of a fire, Dricon® FRT wood will not promote flame spread, and generates less smoke, the #1 killer in fires. Model building codes permit Dricon® FRT wood as a substitute for materials classified as noncombustible in many applications. And Dricon® FRT wood offers a 40-year roof warranty that covers both materials and labor, plus a 40-year preservative warranty and warranty options for truss manufacturers.

Dricon® fire retardant or Dricon® FRT wood complies with or has been granted the following:

- AWPA UC1, UCFA • AWPA P49 (FR-1) • ICC-ES ESR-1626 • EPA Registration (62190-9)
- NYC MEA 199-81-M • NYC MEA 200-81-M • Factory Mutual Class I Roof Deck
- City of Los Angeles (RR 25122) • FHA Minimum Property Standard #2600
- HUD Materials Release (1261) • California State Fire Marshal • State of Wisconsin • QPL

All are subject to revision, reexamination.

www.dricon.com



Strength Design Factors for Dricon® Fire Retardant Treated Lumber Compared to Untreated Lumber Applicable at Service Temperatures Up to 150 F (66 C)

Strength Design Factors	Tested Species											
	Southern Pine Climate Zone			Douglas Fir Climate Zone			Spruce Climate Zone			Other Species Climate Zone		
	1A	1B	2	1A	1B	2	1A	1B	2	1A	1B	2
Compression Parallel, Fc	0.87	0.89	0.91	0.84	0.86	0.88	0.87	0.89	0.91	0.84	0.86	0.88
Horizontal Shear	0.87	0.89	0.91	0.86	0.88	0.90	0.87	0.89	0.91	0.86	0.88	0.90
Tension Parallel	0.87	0.89	0.91	0.82	0.84	0.86	0.87	0.89	0.91	0.82	0.84	0.86
Bending: Modulus of Elasticity, E	0.94	0.95	0.96	0.94	0.95	0.96	0.94	0.95	0.96	0.94	0.95	0.96
Extreme Fiber Stress, Fb	0.87	0.89	0.91	0.87	0.89	0.91	0.87	0.89	0.91	0.87	0.89	0.91

Here are some answers to frequently asked questions about Dricon® FRT wood:

Does it meet building codes? Yes. Dricon® FRT wood has been issued an evaluation report signifying compliance with model codes. It's also recognized by other US and international code and regulatory agencies.

Can it be painted or stained? Yes. Follow the same procedures you would for painting or staining untreated wood. However, flammability of the finish should be considered before application.

What species can be treated? There is a large variety of approved species such as Southern Yellow Pine, Doug Fir, SPF and Hem Fir. For more species details refer to the Dricon® FRT Application Guide.

Can Dricon® FRT wood be used outdoors? No. Dricon® FRT wood is intended only for above ground uses where it is kept away from direct moisture and shielded from weather. For exterior applications, use FRX® exterior FRT wood (see www.frxwood.com).

Is there a reduction in strength compared to untreated wood? Yes. The treating and drying processes cause a reduction in strength that varies with treatment, species of wood, applications and specific properties. Adjustment factors for Dricon® FRT wood are shown on this sheet.

What type of fasteners should be used with Dricon® FRT wood? Galvanized steel hardware is recommended. Although the Dricon® FR treatment does not increase the corrosion of bare steel, the galvanizing process provides an extra margin of safety.

Can I cut Dricon® FRT wood? Yes. Cutting lengths, drilling holes, and light sanding are permissible. It is not necessary to field-treat cut ends to maintain the flame spread rating. Most species of Dricon® FRT lumber should not be ripped or milled. Dricon® FRT plywood can be ripped or cross-cut.

Does Dricon® FRT wood have any special features? Dricon® FRT wood is pressure treated, backed by a 40 year warranty, and registered with the EPA for termite and decay resistance.

Tests: Dricon® FRT wood has been tested in accordance with the following procedures:
 ASTM D 1413 • ASTM D 3201 • ASTM D 3345
 ASTM D 5516 • ASTM D 5664 • ASTM E 84
 ASTM E 162 • Boeing BSS 7239 • MIL-L-19140
 NFPA 255 • NFPA 258 • NFPA 259 • UL 723
All are subject to revision, reexamination.

Strength Design Factors for Dricon® FRT Lumber Compared to Untreated Lumber Applicable at Service Temperatures Up to 100 F (38 C)

Strength Design Factors	Tested Species			Other Species
	Southern Pine	Douglas Fir	Spruce	
Compression Parallel, Fc	0.94	0.91	0.95	0.91
Horizontal Shear	0.95	0.94	0.95	0.94
Tension Parallel	0.92	0.87	0.98	0.87
Bending: Modulus of Elasticity, E	0.98	0.98	0.98	0.98
Extreme Fiber Stress, Fb	0.89	0.90	0.98	0.89

Total Allowable Loads and Spans for Dricon® FRT Plywood Compared to Untreated Plywood Applicable at Service Temperatures Up to 170 F (77 C)

Plywood Panel Thickness	Untreated Span Rating Roof/Subfloor	Dricon® Roof Sheathing Max. Live Load (psf)			Dricon® Subfloor Span Rating (inches)	
		Climate Zone				
		Span (inches)	1A	1B	2	
5/16	12/0	12	69	93	126	0
5/16, 3/8	16/0	16	39	52	71	0
5/16, 3/8	20/0	20	25	33	45	0
3/8, 1/2	24/0	24	27	36	49	0
15/32, 1/2	32/16	24	38	51	70	16
19/32, 5/8	32/16	24	60	80	109	16
19/32, 5/8	32/16	32	34	45	61	16
23/32, 3/4	48/24	32	43	57	77	24
7/8	-	48	24	32	43	-
1 1/8	-	48	40	53	73	48

Climate Zone definitions

- 1 Minimum design roof load or maximum ground snow load up to 20 psf
 - A Southern Arizona, Southeast Nevada (Las Vegas-Yuma-Phoenix-Tucson triangle)
 - B All other qualifying areas of the continental United States
- 2 Minimum ground snow load over 20 psf

Use and Handling:

Dricon® FR treatment does not substantially change the physical characteristics of ordinary lumber. You should be aware of proper handling and personal hygiene practices, which are much the same as if you were using untreated wood. Keep the following guidelines in mind when using and handling Dricon® FRT wood:

1. Dricon® FRT wood should not be installed where it will be exposed to precipitation, direct moisture, or regular condensation.
2. Dricon® FRT wood should not be used in contact with the ground.
3. When storing Dricon® FRT wood, the material

should be kept off the ground and covered to shield it from precipitation.

4. When painting or staining, the paint or stain manufacturer's recommendations should be followed. As with untreated lumber, the surface should be clean and dry.

5. The same common sense precautions should be taken when handling Dricon® FRT wood as with untreated wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and wood chips. Gloves will help avoid splinters. Hands should be washed after doing construction work.