



# TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: [www.frtw.com](http://www.frtw.com) or 1.800.TEC.WOOD (832.9663)

## LUMBER & PLYWOOD ENGINEERING DATA

### ExteriorFireX™ Exterior Fire-Retardant-Treated Wood

ExteriorFireX™ pressure treated fire retardant lumber is limited to uses where the lumber temperature does not exceed 150° F in:

- A. Walls
- B. Floors
- C. Roof/ceiling assemblies where ventilation is evenly distributed providing a uniform airflow over all interior roof surfaces effectively removing built up heat and moisture from the roof system.

#### DESIGN VALUE ADJUSTMENTS FOR ExteriorFireX™ LUMBER

ExteriorFireX™ treated lumber shall bear the mark of an ALSC approved lumber grading or inspection agency. The adjustment below apply to the design values for Southern Pine as listed in the National De-sign Specification (a).

(a) ANSI / AWC National Design Specification (NDS) and NDS Supplement: Design Values for Wood Construction. American Wood Council [www.awc.org](http://www.awc.org)

Property	Adjustment Factor
Extreme fiber in bending	0.85
Tension	0.80
Horizontal shear	0.90
Compression perpendicular to grain	0.90
Compression parallel to grain	0.90
Modulus of elasticity	0.90
Fastener/connector design loads	0.90

## SPAN RATINGS FOR ExteriorFireX™ PLYWOOD

The following plywood roof sheathing and subfloor spans apply to span-rated plywood and/or plywood bearing the trademark of an approved inspection agency, treated with **ExteriorFireX™**. Roof system ventilation shall be evenly distributed providing a uniform airflow over all interior roof surfaces, and sufficient to effectively remove moisture.

Panel Thickness Category	Untreated Span Index	Exterior Fire-X® Maximum Span (inches)	
		Roof Sheathing (1, 2, 5)	Wall & Subfloor (3)
15/32, 1/2	32/16	24	16
19/32, 5/8	40/20	32	20
23/32, 3/4	48/24	40	24
7/8 (4)		48	24

- (1) Clips, blocking or other edge supports must be used with roof sheathing.
- (2) Maximum roof load: 10 psf dead load plus 40 psf live load.
- (3) Maximum floor load: 10 psf dead load plus 100 psf live load.
- (4) Limited to 7/8" CDX plywood made with group 1 species.
- (5) **ExteriorFireX™** treated plywood shall not be used in roof designs employing a radiant shield that is located underneath the bottom surface of the sheathing.

NOTE: THESE SPAN RATINGS ARE BASED ON TEST RESULTS FOR EXTERIORFIREX™ TREATED PLYWOOD AFTER EXTENDED EXPOSURE TO ELEVATED TEMPERATURES AND MOISTURE.

Where **ExteriorFireX™** treated plywood is used for diaphragm or shear wall design there is a 10% reduction.