



**FLAMEFREEZ**<sup>®</sup>  
FIRE RETARDANT TREATED WOOD



FROM THE MAKERS OF



IF IT DOESN'T HAVE THIS YELLA TAG, YOU DON'T WANT IT.



## **ABOUT FLAMEFREEZ®**

When Flamefreez® (fire retardant) treated lumber and plywood products are exposed to open flames, they form a “char” that allows the wood to maintain its strength and stability, while simultaneously reducing flame spread. This passive protection not only helps maintain the integrity of a structure to give firefighters more time to respond, but it also reduces smoke development which is a common cause of death in a fire event.

## **KEY ATTRIBUTES**

- Pressure treated with FlameTech™ fire retardant to provide long-term protection (not a paint or coating)
- Treated with an Interior Class-A High Temperature (HT) fire retardant
- Proven formulation that meets the American Wood Protection Association P50 Standard for Fire Retardants
- Meets the requirements for FRTW listed in the International Code Council Acceptance Criteria ICC AC66 conforming with the International Residential and the International Building Codes (IRC & IBC)
- 1-hour and 2-hour tested interior wall assembly, and 1-hour tested exterior wall assembly (ASTM E119)
- Complies with AWPA UC-1 and UCFA use category systems
- Treatment process meets AWPA T1 standard
- 50-Year Limited Warranty against structural failure
- Recommended for above-ground, weather-protected applications
- Building code compliant
- Kiln dried after treatment to reduce shrinkage
- Strength tested under high temperature and high humidity conditions
- Cut or sawn with typical wood-working tools
- Non-corrosive
- Can be painted or stained





## EASILY IDENTIFIABLE

All FlameFreez® brand products are tinted red during treatment and include an FRT stamp. In addition, units are covered with our branded wrap before leaving the facility for added protection after treatment, during transport, and on the jobsite.

## KEY BENEFITS

- Largely eliminates one of the sources of food for fire: the wood used in construction
- Forms a “char” that allows the wood to maintain its strength and stability while simultaneously reducing flame spread
- Recommended for use in commercial and residential applications (interior areas not exposed to the weather)
- Treated with an Interior Class-A High Temperature (HT) fire retardant
- Can be painted or stained, and can be cut or sawn with typical woodworking tools
- Proven formulation, non-corrosive
- Tested for structural performance

## CERTIFICATIONS

- UL Classified with an FR-S Rating for flame spread index of 25 or less, and smoke development values less than 450
- Flame spread ratings of 25 or less when subjected to ASTM E84 surface burning characteristics in test of 30-minute duration without evidence of significant progressive combustion
- Qualifies for the UL “FR-S,” Class A, “Class 1” classification for surface burning characteristics
- Meets all major model building code requirements as described in the ICC Evaluation Services, Inc. ESR-4056
- Backed by a 50-year limited warranty



## **APPLICATIONS**

- Sill plates
- Roof trusses
- Rafters
- Studs and other framing members
- Plywood roof, wall and floor sheathing
- Beams, joists and purlins
- Plywood sub-flooring
- Steps and stairways
- Partition walls
- Blocking and furring
- Window and door headers



## **USE AND HANDLING**

FlameFreez® products have the same workability as untreated lumber products, requiring only the same tools and precautions used with regular wood products. Keep the following guidelines in mind when using and handling FlameFreez® products:

- Wood should not be installed where it will be exposed to precipitation, direct moisture, or regular condensation.
- Wood must never be installed or used in contact with the ground.
- When storing FlameFreez® products, the material must be kept off the ground and covered to protect it from moisture and precipitation.
- The use of galvanized fasteners is required.
- When painting or staining, follow the paint or stain manufacturer's recommendations. Make sure the surface is clean and dry before application.
- When using FlameFreez® products, it is important to utilize the design value adjustments listed in the guide.
- Cutting of lumber to length (cross-cutting and end cuts) are allowed. Holes and joints are also allowed.
- Ripping of lumber along the length, such as ripping a 2x4 into a 2x2 is not allowed. The cutting of a stair stringer is not allowed to be done after the lumber is treated, as this effect is similar to ripping.
- Milling of the lumber is not allowed. All milling and planing must be done before treatment.
- Fire retardant treated plywood may be ripped or cut in any direction, without restriction.
- Light sanding of lumber and plywood is allowed to remove raised grain or to prepare for finishing.
- Shaping or resurfacing must be done before treatment.
- End-coating of any approved cut is not required.

# CERTIFIED WALL ASSEMBLIES

## 1-HR EXTERIOR LOAD BEARING WALL (Design No. FRCT/FRWT 60-03)

### Fire Ratings:

- 1 hr from Interior
- 1 hr from Exterior

### Maximum Test Load:

100% Design Load



- 1 Brick Veneer or 3/4 inch Cement Plaster (Stucco)**  
(Required only for rating from Exterior) (1 hr from Exterior Face)
- 2 FlameFreez® Pressure-Impregnated Fire Retardant Treated Plywood** (minimum 15/32 inch thick)  
(Tinted **RED** for easy identification)
- 3 Insulation** (Fiberglass Class A batt insulation min. 3-1/2 inch thick R-13 friction fit between the studs. Min. 5-1/2 inch thick with 2x6 inch nominal wood studs.)
- 4 FlameFreez® Pressure-Impregnated Fire Retardant Treated Lumber** (minimum 2x4 studs @ 16 inch o.c.)  
(Tinted **RED** for easy identification)
- 5 1 Layer of Type X or Equivalent Drywall**  
(1 hr from Interior Face)



## 1-HR INTERIOR LOAD BEARING WALL (Design No. FRCT/FRWT 60-04)

### Fire Ratings:

- 1 hr from Interior

### Maximum Test Load:

100% Design Load



- 1 FlameFreez® Pressure-Impregnated Fire Retardant Treated Plywood** (minimum 15/32 inch thick)  
(Tinted **RED** for easy identification)
- 2 Insulation** (Fiberglass Class A batt insulation min. 3-1/2 inch thick R-13 friction fit between the studs. Min. 5-1/2 inch thick with 2x6 inch nominal wood studs.)
- 3 FlameFreez® Pressure-Impregnated Fire Retardant Treated Lumber** (minimum 2x4 studs @ 16 inch o.c.)  
(Tinted **RED** for easy identification)
- 4 1 Layer of Type X or Equivalent Drywall**  
(1 hr from Interior Face)



# CERTIFIED WALL ASSEMBLIES

## 2-HR EXTERIOR LOAD BEARING WALL (Design No. FRCT/FRWT 120-02)

### Fire Ratings:

- 2 hrs from Interior
- 1 hr from Exterior

### Maximum Test Load:

100% Design Load



- 1** Brick Veneer or 3/4 inch Cement Plaster (Stucco)  
(Required only for rating from Exterior)
- 2** FlameFreez® Pressure-Impregnated Fire Retardant Treated Plywood (minimum 15/32 inch thick)  
(Tinted RED for easy identification)
- 3** Insulation (Fiberglass Class A batt insulation min. 3-1/2 inch thick R-13 friction fit between the studs. Min. 5-1/2 inch thick with 2x6 inch nominal wood studs.)
- 4** FlameFreez® Pressure-Impregnated Fire Retardant Treated Lumber (minimum 2x4 studs @ 16 inch o.c.)  
(Tinted RED for easy identification)
- 5** 2 Layers of Firecode® Type C or Equivalent Drywall  
(2 hrs from Interior Face)



## 2-HR EXTERIOR LOAD BEARING WALL (Design No. FRCT/FRWT 120-01)

### Fire Ratings:

- 2 hrs from Interior

### Maximum Test Load:

100% Design Load



- 1** FlameFreez® Pressure-Impregnated Fire Retardant Treated Plywood (minimum 15/32 inch thick)  
(Tinted RED for easy identification)
- 2** Insulation (Fiberglass Class A batt insulation min. 3-1/2 inch thick R-13 friction fit between the studs. Min. 5-1/2 inch thick with 2x6 inch nominal wood studs.)
- 3** FlameFreez® Pressure-Impregnated Fire Retardant Treated Lumber (minimum 2x4 studs @ 16 inch o.c.)  
(Tinted RED for easy identification)
- 4** 2 Layers of Firecode® Type C or Equivalent Drywall  
(2 hrs from Interior Face)



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To contact a local rep or learn more,  
visit [yellawood.com/flamefreez](http://yellawood.com/flamefreez).