

Fireshield Building

Fire-rated plywood

Fire-rated plywood for construction is modified with an innovative treatment that provides 100% of the panel with exceptional resistance to fire, even after sanding and machining.

Its ASTM E-84 class A, the highest for wood, confirms.

Fireshield Building panels are made of premium single-piece core veneers from European sustainable poplar tree farms that provide extraordinary lightweight panels that are easy to machine, virtually void-free with no telegraphing, and exceptional bond quality, flatness, stability, and machining properties.

PART 1 - GENERAL

1. Abbreviation and acronyms

- a) CARB: California Air Resources Board
- b) TSCA: Toxic Substances Control Act
- c) PEFC: Programme for the Endorsement of Forest Certification
- d) FSC®: Forest Stewardship Council®
- e) LEED®: Leadership in Energy and Environmental Design
- f) ASTM: American Society for Testing Materials
- g) EN: European Norms

2. References Standards

- a) ASTM D6007-14 - Standard Test Method to determine the level of formaldehyde of wood products under specific conditions and using a large chamber.
- b) USGBC LEED – Green Building Rating System™

3. Submittals Procedures

- a) Product Data: Fire-rated plywood
- b) Informational
 - i. Material Certificates and Tests available for the product:
 - i. CARB Compliance: Phase 2 formaldehyde emissions certifications
 - ii. US EPA TSCA Title VI certification
 - iii. FSC® certification (available as FSC Mix. FSC-C116880).
 - iv. PEFC certification (available as PEFC certified. AEN-PEFC-COC-0016)
 - v. ASTM E-84, Class A test

PART 2 - PRODUCT

1. Description

Fire-rated plywood for construction. ASTM E-84 class A rated, the highest for wood. The modified treatment provides 100% fire resistance coverage / continues post-sanding or machining as each veneer layer is treated before the stacking process. This treatment reduces carbonization speed, smoke generation, and flame propagation. Exceptional qualities:

- a) Easy to machine

- b) Lightweight
 - c) Stable and high surface quality
 - d) Responsibility. CARB Phase 2, TSCA Title VI, CE1 certificate.
 - e) Sustainability. Certified fast-growing European tree farms.
2. **Properties**
- a) Formaldehyde Emission Requirements: 0.05 ppm according to ASTM D6007-14 test method.
 - b) Glue Type: Interior
 - c) Fire Resistance: ASTM E-84, Class A and CAN/ULC S102-10 rated.
 - d) Face Grade: BB/BB
3. **Technical features**
- a) Density - 28.72-33.09 Lb/ft³ (EN 323)
 - b) MOE - 3400-4700 N/mm² (EN 310)
 - c) Face screw holding - 135 kgf (EN 320)
 - d) Moisture content - 6-14 % (EN 322)
4. **Available sizes**
- a) Length and width: 49"x 97", 49" x 121", 61" x 121"
 - b) Thicknesses: 1/4", 3/8", 1/2", 5/8", 3/4", 1"
5. **Materials:**
- a) Composition:
 - i. Face: treated poplar
 - ii. Core: treated poplar
 - iii. Back face: treated poplar
6. **Storage, usage, and handling**

Check the most updated information about the [Fireshield Good Practice here.](#)