

SaferWood

Thermex-FR



SUMMARY OF SPECIFICATIONS

Below is a summary of general information, classifications, and guidance regarding SaferWood™ with Thermex-FR. Reports and more specific information on these subjects may be found within our Technical Library.

Code Compliance

- A. Lumber and plywood designated SaferWood™, Thermex-FR™, FRX™, Mataverde™, and Flame Repel™, as listed on ICC-ESR 1159 and QAI CERus-1031, heretofore SaferWood™, has a flame spread index of 25 or less (Class A) when tested in accordance with ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials."
- B. SaferWood™ fire-retardant-treated wood shows no evidence of significant progressive combustion when the test is extended for an additional 20-minute period. The flame-front does not progress more than 10 1/2 feet beyond the

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centerline of the burners at any time during the test. Surface burning characteristics for each species and product are listed by ICC ESR-1159 and QAI CERus-1031.

- C. **SaferWood™** shows no increase in the listed classification when evaluated for flame spread after testing in accordance with ASTM D2898 “Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing”, Method A.
- D. **SaferWood™** lumber and plywood is manufactured under independent third-party inspection of QAI Laboratories and International Code Council Evaluation Service (ICC-ES) and each piece shall bear the QAI/ICC classified mark indicating the extended 30-minute ASTM E84 test and no increase in classification after ASTM D2898.
- E. **SaferWood™** shall be kiln-dried after treatment (KDAT).
- F. **SaferWood™** meets the performance requirements of AWPA U1, Specification H for Use Category UCFB (fire protection, exterior, above ground) and AWPA C20/C27 (Exterior Type).
- G. **SaferWood™** is available with a blue colorant or branding as required for identification by the nuclear power industry and Department of Defense (DOD) Mil Spec requirements, Type II (Exterior Type).

- H. SaferWood™ is listed on the Qualified Products List (QPL) for Mil Spec Mil-L 19140E (CAGE 07YF4).

SaferWood with Thermex-FR

- A. Thermex-FR is manufactured by Chemco, Inc.
- B. Thermex-FR is a proprietary product of Chemco, Inc. No substitutions permitted.
- C. SaferWood™ with Thermex-FR shall be kiln-dried to a maximum moisture content of 19% for lumber and 15% for plywood.
- D. SaferWood™ lumber and plywood shall use design value adjustments and span ratings as published by Chemco, Inc.
- E. SaferWood™ Thermex-FR is nontoxic and nonhazardous, per Washington State Department of Ecology Biological Testing Method 80-12 per WAC 173-303; Standard Fish Toxicity Test Results.
- F. Lumber and plywood of the appropriate size, grade and species, and bond durability shall be specified by the design criteria for the intended application.
- G. Plywood shall have a minimum bond durability of Exposure 1 in accordance with US Product Standard PS 1, Construction and Industrial Plywood.

- H. Grade marked structural lumber treated with SaferWood™ shall be in accordance with PS 20.

Design & Use

- A. SaferWood™ is a leach resistant fire-retardant treatment and may be installed with direct exposure to precipitation; however, it cannot be substituted for preservative treated wood unless where required by code.

- B. SaferWood™ fire-retardant-treated lumber and plywood used in structural applications shall be applied according to the lumber and plywood strength tables available from Chemco, Inc.

- C. Field cutting is allowed without end treating. Do not rip or mill fire-retardant-treated lumber. Cross cuts, joining cuts, and drilling holes are permitted in lumber. Fire-retardant-treated plywood may be cut in any direction.