

BUILDING PRODUCTS LISTING PROGRAM

Class: Fire Retardant Treated Wood Products

Customer: Chemco, Inc.
Location: Ferndale, WA
Website: <https://www.saferwood.com>
Listing No. B1152-1
Effective Date: November 7, 2024
Last Revised: November 7, 2024
Expires: N/A

Products: FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Lumber
 FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Plywood

Standard(s): CAN/ULC S102-18 *“Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.*
 ASTM E84-22 *“Standard Test Method for Surface Burning Characteristics of Building Materials”, extended an additional 20 minutes (ASTM E84 30-Minute Duration).*
 ASTM E2768-11(R2018) *“Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)”.*
 ASTM D2898-10(R2017) *Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing.*
 ASTM D3201/D3201M-20 *“Standard Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Base Products”.*

Species: Lumber Grades: Southern Yellow Pine (SYP), Douglas-fir (DF), Spruce-Pine-Fir (SPF), Western Red Cedar (WRC), Redwood (RW), Hemlock-Fir (HF)
 Engineered Wood Structural Panels: Southern Yellow Pine (SYP), Douglas-fir (DF), Western Red Cedar (WRC), White Spruce (WS), Western Hemlock-Fir.

Label(s): Example labels found in QAI certified FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Wood products are outlined below:



Ratings: The following outlines FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Wood product ratings:

Table 1. FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Lumber Surface Burning Characteristics per CAN/ULC S102.

SPECIES GRADE	Flame Spread Index (FSI) ¹	Smoke Developed Index (SDI)
LUMBER: SYP, DF, SPF, WRC, RW, HF	≤ 25 ²	≤ 100
WOOD STRUCTURAL PANEL: SYP, SPF, DF, WRC, WS, HF	≤ 25 ²	≤ 100

Note 1: Flame spread index is determined after weathering in accordance with ASTM D2898 per the 2020 National Building Code of Canada Section 3.1.4.8 clause 3) for exterior grade products.

Note 2: Flame spread index complies with Section 3.1.4.5 of the 2020 National Building Code of Canada Section 3.1.4.5 clause b) flame spread rating requirements.

Table 2. FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Lumber Surface Burning Characteristics per ASTM E84 (Extended) / ASTM E2768¹

PRODUCT	SPECIES	Flame Spread Index (FSI)	Smoke Developed Index (SDI)	Flame Front ²
LUMBER:	SYP, DF, SPF, WRC, RW, HF	< 25	< 450	< 10.5 feet.
WOOD STRUCTURAL PANEL ³ :	SYP, DF, WS, WRC, HF	< 25	< 450	< 10.5 feet.

Note 1: Flame spread index is determined after weathering in accordance with ASTM D2898 for exterior grade products.

Note 2: No evidence of significant progressive combustion after extended 20 minutes duration.

Note 3: Testing of wood panels was conducted without ripping or longitudinal cut of 1/8" (0.375 inches) included.

FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Lumber products strength adjustment factors are outlined in QAI Code Evaluation Report CER_{US}-1031. Strength adjustments outlined in the noted CER_{US}-1031 should be used in conjunction with the approved wood design methodology where fire-retardant treated wood products are used in load-bearing applications (National Design Specification USA / CSA 086 Canada).

FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel Fire Retardant Treated Wood Structural Panel products strength adjustment factors are outlined in QAI Code Evaluation Report CER_{US}-1042. Strength adjustments outlined in the noted CER_{US}-1042 should be used in conjunction with the approved wood design methodology where fire-retardant treated wood products are used in load-bearing applications (National Design Specification USA / CSA 086 Canada).

FRX, Saferwood-FX, Thermex-FX, Mataverde, Flame Repel products have less than 28% moisture content when tested in accordance with ASTM D3201 at a 92 percent-relative humidity.

Note: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

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