



Fire Retardant Coatings of Texas®, LLC
1150 Blue Mound Rd West #403 • Haslet, Texas 76052
Office (817) 710-5233 Fax (817) 439-8385
www.frctexas.com



FX LumberGuard®

Certificate of Fire Retardant Wood Treatment

To: Vanguard
Homes

Date of Service: 7/28/23

Batch Code or Order No.: 043019-880

This is to certify that the material described below was treated with FX Lumber Guard and has been applied in conformance with FRCT's application specifications, ICC-ES ESR 3872, ICC ES ESL-1087, ICC ES ESL-1064, IAPMO UES ER-478 and Intertek CCRR-1044.

Your Invoice # 11705 Justify DR dated 7/28/2023

Description of material treated:

Treated I-joist in unfinished area of basement.

Square/Board Foot Treated: 460 sq ft Spread Rate: 300-350 square feet per gallon

Applicator:

Alpine Construction Services
65 Commerce St., Suite 100
Colorado Springs, CO 80907

Applicators Signature: Lauren White



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Pikes Peak Regional Building Department

2880 International Circle
Colorado Springs, Colorado 80910
Telephone: (719) 327-2880

PLAN NUMBER:
Alternative
Material
Allowance
PERMIT NUMBER:

ALTERNATE MATERIALS AND METHODS APPLICATION

INSTRUCTIONS:

1. Section RBC104.7 of the *Pikes Peak Regional Building Code* gives the Building Official the authority to approve any alternate material, design, or construction method if the Building Official determines the following: a) That the proposed alternate material, design, or construction method is satisfactory, and that the material, design, or method offered is, for the purpose intended, at least the equivalent of that prescribed in the Code in quality, strength, effectiveness, fire resistance, durability, and safety; b) That sufficient evidence has been submitted to substantiate any claims that may be made regarding the use of any proposed alternate material, design, or construction method.
2. Address all communications to: Deputy Building Official – Plan Review, Pikes Peak Regional Building Department (jay@pprbd.org).
3. Alternative Materials and Methods Applications that are denied by the Building Official may be appealed to the Technical Committee and Board of Review in the form of a Variance Request Application available at www.PPRBD.org.

APPLICATION FEE OF \$50.00 MUST BE INCLUDED WITH THIS SUBMITTAL

PROJECT NAME: FX Lumber Guard/FX Lumber Guard XT - Fire Coatings of Texas, LLC

PROJECT ADDRESS: _____

APPLICANT'S NAME: David Paulo, Sr.

MAILING ADDRESS: 1150 Blue Mound Road West #403

CITY: Haslet

ST: TX

ZIP: 76052

PHONE: (817) 710-5233

EMAIL: david@frctexas.com



REQUEST

Identify relevant code section(s) and clearly define all alternates offered in lieu of the prescribed code requirements (attach documentation as needed):
Pikes Peak Regional Building Code 2017 Edition, RBC104.7 "Alternate Materials And Methods of Construction"

Submit FX Lumber Guard/FX Lumber Guard XT Products for use with TJI Joist Assemblies for Fire Retardant Treated protection based on Test Data by INTERTEK that provides emphasis that FX Lumber Guard is acceptable per IRC, 2015, Sec R302.13, Exception 4

JUSTIFICATION

State how the alternate proposed is at least as equivalent to the prescribed requirement(s) and attach supporting documentation, drawings, and reports as necessary to substantiate claims of equivalency. *The justification must be prepared AND sealed by a Colorado licensed design professional.*
Equivalent Fire Performance is verified in attached INTERTEK Testing for I-Joist Floor Assemblies per ASTM 119, I-Joist per ASTM 84, OSB Material & Plywood Material, and Southern Pine Lumber. Letter with Attached INTERTEK Testing Data and further Analysis in compliance with ASTM Standards is attached.

(THIS SECTION IS FOR INTERNAL USE ONLY)

Staff Comments: No exception taken with acceptance by licensed design professional

Staff Recommendation:

☒ Approval

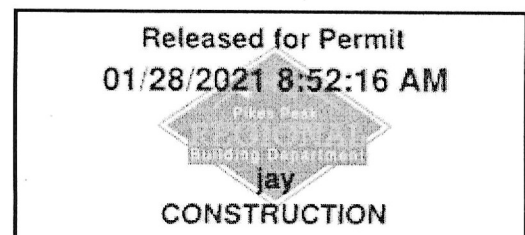
☐ Disapproval

Staff Initials: JAW

Final Review Comments / Conditions: No exception taken based on 3rd party review and supporting documentation.

FINAL STATUS: ☒ Approval ☐ Disapproval

Approved By: Allan J. Eenhuis, P.E. Date: 01/28/2021



~~Expires: 02/01/2023~~
Expiration extended to: 6/29/2023



DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 —05 73.13—Fire-Retardant Wood Treatment

REPORT HOLDER:

FIRE RETARDANT COATINGS OF TEXAS, LLC.

EVALUATION SUBJECT:

FX LUMBER GUARD AND FX LUMBER GUARD XT FIRE-RETARDANT PENETRANTS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Fire Code*® (IFC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Existing Building Code*® (IEBC)

Property evaluated:

Surface-burning characteristics

2.0 USES

FX Lumber Guard and FX Lumber Guard XT are fire-retardant penetrants, as defined in IFC Section 803.4 that are field-applied by applicators approved by Fire Retardant Coatings of Texas, LLC, to exposed surfaces of unfinished Southern Yellow Pine dimension lumber, Southern Yellow Pine plywood, or oriented strand board (OSB) rated sheathing Exposure 1 as an interior finish in the interior of new and existing construction to achieve the flame-spread and smoke-developed indices required by the applicable code.

3.0 DESCRIPTION

3.1 General:

FX Lumber Guard and FX Lumber Guard XT fire retardant penetrants are clear, water-based products that come in 1-quart (1.0 L), 1-gallon (3.8 L), and 5-gallon (18.9 L) containers, 55-gallon (208 L) drums, and 250-gallon (946.4 L) totes. The products have a shelf life of three years from the date of manufacture when the containers are unopened and stored at temperatures between 45°F (7.2°C) and 95°F (35°C).

4.0 INSTALLATION

4.1 General:

FX Lumber Guard and FX Lumber Guard XT must be installed in accordance with this report, the manufacturer's published installation instructions and the applicable code. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The surface to be treated must be free of dust, dirt, oil, paint, stain, varnish, or sealant. The products are not for use on surfaces that may be subjected to washing or sustaining humidity of 80 percent or more. The products must be thoroughly mixed before and throughout the application and applied by manual-pump spraying, rolling, or brushing in one application. The ambient air temperature for application must be limited to a minimum of 45°F (7.2°C) and maximum of 95°F (35°C). The maximum moisture content for the substrate is 15 percent for dimension lumber, 19 percent for plywood, and 16 percent for oriented strand board (OSB). The cure time for the fire-retardant penetrant can be a minimum of 8 hours to a maximum of 32 hours. The performance of products with multiple applications is outside the scope of this report.

4.2 Application and Surface-Burning Characteristics:

When applied to unfinished Southern Yellow Pine dimension lumber, Southern Yellow Pine plywood, or oriented strand board (OSB) rated sheathing Exposure 1 at a minimum coverage rate of 300 square feet per gallon (7.36 m²/L), the products provide a flame-spread-index of 25 or less and a smoke-developed index of 200 or less when tested in accordance with ASTM E84 and qualifies as a Class A finish in accordance with 2021 and 2018 IBC Section 803.1.2 (2015, 2012, 2009 and 2006 IBC Section 803.1.1), 2021 and 2018 IFC Section 803.1.2 (2015, 2012, 2009 and 2006 IFC Section 803.1.1) and NFPA 703.

4.3 Field Test:

When required by the code official, observation of the treatment or field testing must be conducted in accordance with one of the following methods:

4.3.1 Observation: Observing the presence of a distinctive color (green, red or orange) dye after application.

4.3.2 Field Test: For penetrants without dye, expose the treated substrate to a small fire source, such as a propane torch. The flame exposure must be applied for a maximum of 15 seconds to a treated substrate and an untreated substrate. Evidence of a treated substrate is observed by comparing the reactions to the flame where the treated substrate will form a visible black char layer.

5.0 CONDITIONS OF USE

The FX Lumber Guard and FX Lumber Guard XT fire retardant penetrant described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report, the manufacturer's published instructions, and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 Application must be limited to construction of the specific substrate set forth in Section 2.0, to exposed interior locations having a sustaining humidity of less than 80 percent.
- 5.3 Field testing must be performed by the approved applicator, as indicated in Section 4.3, when required by the code official.
- 5.4 The manufacturer's Certificate of Fire Retardant Treatment (COT), as shown in Figures 1 and 2, must be submitted by the approved applicator to the code official describing the material treated; the location of the treated materials; product batch number or order number, including the square footage of the area treated; and the application rate.
- 5.5 Special inspections may be required when determined to be necessary by the code official in accordance with Section 1705.1.1 of the 2021, 2018, 2015 and 2012 IBC or Section 1704.15 of the 2009 IBC, or Section 1704.13 of the 2006 IBC, as applicable.
- 5.6 The performance of products with multiple applications is outside the scope of this report.

- 5.7 The penetrants are manufactured in Haslet, Texas, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Surface-applied Fire-retardant Coatings (AC308), dated February 2007 (editorially revised April 2022).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-3872) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, containers of FX Lumber Guard and FX Lumber Guard XT fire retardant penetrants are identified by the label bearing the manufacturer's name (Fire Retardant Coatings of Texas, LLC) and address, the product name, the date of manufacture, shelf life, the manufacturer's instructions for application, and the ICC-ES evaluation report number (ESR-3872).
- 7.3 The report holder's contact information is the following:

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<h2 style="margin: 0;">FX LumberGuard®</h2> <h3 style="margin: 0;">Certificate of Fire-Retardant Wood Treatment Labeling</h3>		
To: _____ _____ _____		Date of Service: _____
Batch Code or Order No.: _____ This is to certify that the material described below was treated with FX Lumber Guard and has been applied in conformance with FRCT's application specifications, ICC-ES ESR 3872, ICC-ES ESL-1087, and ICC-ES ESL-1064.		
Description of material treated: _____ _____ _____ _____		
Square/Board Foot Treated: _____ Spread Rate: 300-350 square feet per gallon Species Treated: _____		
Applicator / Treater: Name: _____ Address: _____ City: _____ ST: _____ ZIP: _____ Phone: _____		
Applicators Signature: _____		
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FIGURE 1—EXAMPLE OF CERTIFICATE OF TREATMENT (COT) FOR FX LUMBER GUARD




	<p>Fire Retardant Coatings of Texas®, LLC 1150 Blue Mound Rd West #403 • Haslet, Texas 76052 Office (817) 710-5233 Fax (817) 439-8385 www.frctexas.com</p>	
<h2 style="text-align: center;">FX LumberGuard® XT</h2>		
<h3 style="text-align: center;">Certificate of Fire Retardant Wood Treatment</h3>		
<p>To: _____ _____ _____</p>	<p>Date of Service: _____</p>	
<p>Batch Code or Order No.: _____ This is to certify that the material described below was treated with FX Lumber Guard XT and has been applied in conformance with FRCT's application specifications, ICC-ES ESR-3872, ICC-ES ESL-1087, and ICC-ES ESL-1064.</p>		
<p>Your Invoice # _____ dated _____ 20____.</p>		
<p>Description of material treated: _____ _____ _____</p>		
<p>Square Foot Treated: _____ Spread Rate: 300-350 square feet per gallon</p>		
<p>Applicator: Name: _____ Address: _____ City: _____ ST: _____ ZIP: _____ Phone: _____</p>		
<p>Applicators Signature: _____</p>		
<p style="text-align: center;"><small>"Fire Retardant Coatings of Texas", "FX Lumber Guard / FX Lumber Guard XT" & "FRCT" Logo are federally registered trademarks of Fire Retardant Coatings of Texas, LLC</small></p>		

FIGURE 2—EXAMPLE OF CERTIFICATE OF TREATMENT (COT) FOR FX LUMBER GUARD XT