

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 4150-1735:0101

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CATEGORY: 4150 -- ROOF COVERING, WOOD SHAKES/SHINGLES

LISTEE: FSR TREATMENT, INC. 9486-288 St., Maple Ridge, BC V2W 1L1 Canada
Contact: Kris Watkins (604) 462-7116 Fax (604) 462-7116
Email: accountspayable@watkinsawmills.com

DESIGN: Model FTX and *Thermex and FSR pressure treated, No. 1 Grade Western Red Cedar shakes *or shingles. Shakes and shingles, having a maximum moisture content of *20%, are pressured treated *by FSR Treatment, Inc. with FSR Treatment, Inc's proprietary fire retardant chemical. Refer to ICC Evaluation Services, Inc. ES Report No. ESR-1410 Reissued *June 1, 2008 for additional detailed product description and installation considerations.

RATING: Class B and C

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.
Class B and C shakes and shingles are applied over 1/2" thick CDX plywood with exterior glue or spaced sheathing of 1" x 4" lumber, and a listed asphalt-saturated felt underlayment and interlayment. Spacing between shakes and shingles shall not be less than 3/8" nor more than 5/8". The roof valley flashing shall be fabricated of not less than No. 28 Ga. galvanized sheet corrosion-resistant metal applied over at least Type 15 felt. Hot-dipped zinc-coated fasteners shall be used.

For Class A assemblies, Class B shakes and shingles shall be applied over 1/4" Dens-Deck (a glass-faced gypsum roof board), or a minimum approved and listed 72- lb mineral surface fiberglass cap sheet, complying with ASTM D3909, installed over solid or spaced sheathing as described for Class B and C. The Dens-Deck shall be fastened with a minimum four fasteners per board and the cap sheet shall be installed with a 2-inch overlap on sides and ends. The use of the Class A assembly is subject to the final approval of the authority having jurisdiction.

MARKING: Listee's name, model number, classification, and CSFM label.

APPROVAL: Listed as Class B and C, pressure treated red cedar shakes and shingles when installed on minimum roof slopes of 4:12 and when used as part of a Class A assembly as described under Installation Section above. Class B shingles may be used on minimum roof slopes of 3:12 when at least listed Type 15 felt underlayment is used and the installation is approved by the authority having jurisdiction.

NOTE: Formerly 4150-1450:100

* Rev. 08-04-10 fm



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2019**

Listing Expires **June 30, 2020**

Authorized By: **DAVID CASTILLO, Program Coordinator**
Fire Engineering Division