

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

LISTING SERVICE

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CATEGORY: Roof Covering, Wood Shakes/Shingles

LISTEE: Chemco, Inc., 4191 Grandview Road, Ferndale, WA 98248
Contact: Philip Favro (916) 962-1066 FAX (916) 965-9357

DESIGN: Model FTX and CedarPlus *Durashake, *FST, and *Chemco pressure treated, No. 1 Grade Western Red Cedar shakes and shingles. Shakes and shingles, having a maximum moisture content of 25%, are pressured treated with Chemco's proprietary FTX fire retardant chemical. Refer to National Evaluation Service (NES) Report No. NER-215 *(March 1, 2000) and *ICBO-ES Report No. ER-5404 (December 1999) 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 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 shakes and 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.

*Rev. 11-16-2001



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 suitable information sources.

Date Issued: **JUNE 29, 2004**

*Listing Expires **June 30, 2005***

Authorized By: **DIANE K. AREND, Senior Deputy
Program Manager**