

TECHNICAL BULLETIN -116

MANDATORY REQUIREMENTS AND CRITERIA FOR WILDLAND-URBAN INTERFACE (WUI) FIRE AREA

MANDATORY CRITERIA

SYSTEMS

- Waterproof Deck Coating System:
 - Pli-Dek "F" System

PURPOSE:

The California State Fire Marshal's Building Material Listing (BML) program **REQUIREMENTS** for exterior design and construction of new buildings located within a Wildland-Urban Interface (WUI) Fire Area:

California Building Code Chapter 7A {SFM} - Materials and Construction Methods for Exterior Wildfire Exposure:

SECTION 709A.3 DECKING SURFACES: The walking surface material of decks, porches, balconies and stairs shall be constructed with one of the following materials:

1. Material that complies with the performance requirements of [Section 709A.4](#) when tested in accordance with both ASTM E2632 and ASTM E2726.
2. [Ignition-resistant material](#) that complies with the performance requirements of [704A.3](#) when tested in accordance with ASTM E84 or UL 723.
3. Material that complies with the performance requirements of both SFM Standard 12-7A-4 and SFM Standard 12-7A-5.
4. Exterior fire retardant [treated wood](#)
5. [Noncombustible](#) material
6. Any material that complies with the performance requirements of SFM Standard [12-7A-4A](#) when attached [exterior wall covering](#) is also composed of [noncombustible](#) or [ignition-resistant material](#).

Exception: [Wall](#) material may be of any material that otherwise complies with this chapter when the decking surface material complies with the performance requirements ASTM E84 with a Class B [flame spread](#) rating.

7. Any material that complies with the performance requirements of [Section 709A.5](#) when tested in accordance with ASTM E2632 and when attached exterior [wall](#) covering is also composed of only [noncombustible](#) or [ignition-resistant materials](#).

Exception: [Wall](#) material shall be permitted to be of any material that otherwise complies with this chapter when the decking surface material complies with the performance requirements ASTM E84 with a Class B flame spread rating.



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California Building Code Chapter 7A {SFM} - Materials and Construction Methods for Exterior Wildfire Exposure:

SECTION 703A.7 STANDARDS OF QUALITY: The State Fire Marshal standards for exterior wildfire exposure protection listed below and as reference to the above chapter are located in the California Referenced Standards Code, Part 12 and Chapter 35:

SFM Standard 12-7A-5:

Ignition-resistant Material. A generic building material surface burning flame spread test standard consisting of an extended 30 minute ASTM E84 or UL 723 test method as is used for fire-retardant-treated wood.

Pli-Dek Testing, Approvals, Qualifications:

SECTION 709A.3 ITEM 2.:

1. ASTM E84 - 10 minute test -- Class "A"
2. ASTM E84 - 30 minute test -- Class "A"
3. Pending BML Listing 8110 category code -- Listing No. 8110-2327:0500
4. Pending BML Listing 8180 category code {Non-Wood Roof Covering/Assemblies for WUI}

ADDITIONAL TESTING/APPROVALS:

1. ICC ESR-2097
2. ASTM E108 -- Class A
3. ASTM E119 -- One-Hour



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