

Wildland-Urban Interface Building Codes

Standards:

California Office of the State Fire Marshal code: SFM 12-7A-4 Part A. Requirements are a net Heat Release Rate (HRR) of 25kW/ft² for a 40 minute observation and pass ASTM 2898 (weathering "rain test"). The material must also perform as a class B ASTM E 84.

San Diego County code: SFM 12-7A-4 Part B. Requirements are no sustained flaming, flaming drops or structural failure prior to the 40-minute observation with a Class B burning brand.

Wildland-Urban Interface testing results

	SFM 12-7A-4 Part A	SFM 12-7A-4 Part B	Test reports
Trex Accents: Fire Defense	20.76	Pass 3 of 3	0.12703.01.416B 01.12694.01.325B
Trex Escapes	13.7	Pass 3 of 3	01.12703.01.231B 01.12703.01.231I

Weather testing performed at PFS Corporation, Flame testing performed Southwest Research Facility. Production witnessed 3rd party by PFS Corporation.

Flame Spread

Why Is Flame Spread Important?

Flame spread is a common test used to determine the fire resistance of properties of a material. Not only are wood and wood-based products evaluated for flame spread, but office panel partitions, flooring and fabric wall coverings as well. Flame spread is expressed in terms of index numbers. Flame spread numbers dictate if, how much, and where the material may be used in home and building construction. The smoke developed index refers to the amount of toxins released during combustion.

Definitions:

Flame Spread: flame spread rate over a surface.

Smoke developed Index: Comparison of the amount of smoke generated by the test sample compared to a red oak standard.

Standard:

The standard test procedure for measuring flame spread is ASTM E84 "Surface Burning Characteristics of Building Materials".

Flame Spread

Flame Spread index rating	Flame Spread index
Class A (Class I)	0-25
Class B (Class II)	26-75
Class C (Class III)	76-200

Typical examples of how flame spread classifications are used:

- Class A - Fire exits, interior finishes
- Class B - Walls and ceilings of small rooms
- Class C - Finish materials in large capacity rooms (over 300 people)

Note: Trex® Wood Polymer is listed for exterior use.

Flame Spread Ratings of Typical Deck building products

ASTM E 84 Flame Spread Index		
Trex Accents Fire Defense	55	01.12693.01.150p
Trex Escapes	10	01.12693.01.150j

Testing of Trex® Fire Defense performed at southwest research facility. Production witnessed 3rd party by PFS Corporation. Weathering conducted at PFS Corporation

Combustion properties and Code bodies:

Wildland-Urban interface codes are specifically required in California jurisdictions zoned as such. San Diego County has chosen to enact additional requirements with the class B burning brand testing. Municipalities may choose to adopt additional requirements.

Check your local building code for jurisdictional specifications