

Fire testing of floor coverings

What you need to know

1. The European standard



EN 13501-01

supersedes **ALL** national fire classifications



B1



M3



Hot Metal Nut

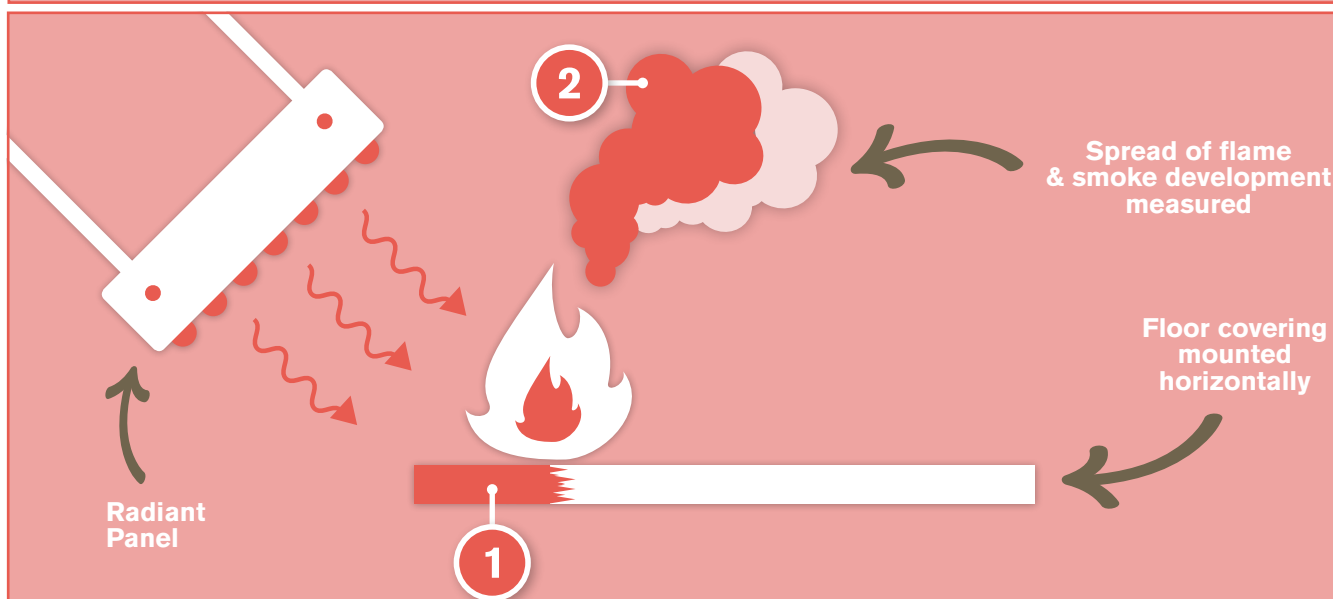


2. The main reaction to fire test

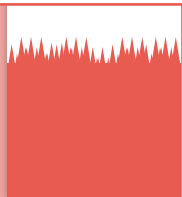


EN ISO 9239/1

assesses burning behaviour for **HORIZONTALLY** mounted floor coverings



1



Distance burned is converted and measured in kW/m²

4.5 kW/m² = minimum value for fire classes Bfl and Cfl

equivalent to the result required to meet the former B1 classification for example

2



Smoke production is also recorded during testing

<750 % x min = class s1 (little smoke formation with fire)

ALL Interface products meet this

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3. Spread of flame classification



non-combustible products

Resilient and textile floorings **DO NOT** meet these classifications.



Flame-retardant floor coverings

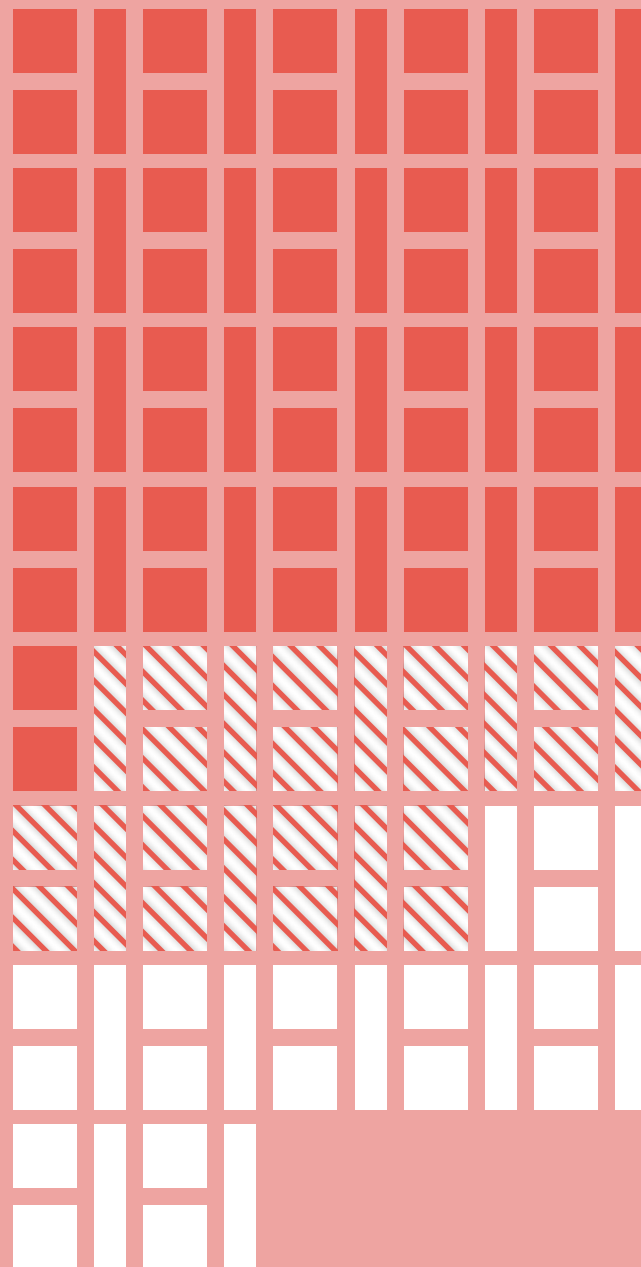


Whilst Bfl s1 is the slightly higher classification it simply means the product is flame-retardant which is what Cfl s1 also means.

Further differences in spread of flame between the two fire classes is minimal.

Both Bfl s1 and Cfl s1 are accepted and in most country specific rules and regulations Cfl s1 has been adopted as it corresponds to previous national standards.

4. Interface products



62* Interface products rated Bfl s1



49* products rated Cfl s1.



24 could be Bfl s1 if required