

Reaction to Fire* and Smoke Emission

7mm	Cfl-s1
9mm	Cfl-s1
10mm	Cfl-s1
11mm	Cfl-s1
13mm	Dfl-s1
14mm	Dfl-s1
15mm	Dfl-s1
EVO	Bfl-s1

*EN 13501-1 European fire classes for floorings

All the Nordic countries have implemented the European fire classes for floorings according to EN 13501-1. The former classification of floorings was based on the test method NT FIRE 007 (floorings in class G or L) and NT FIRE 001 (non-combustible floorings). In most areas in buildings, there is no requirement on reaction to fire for floorings. The main exception is escape-ways and premises like conference halls etc. Sweden has chosen to require the class Cfl-s1 for escape routes.

Euroclass	Contribution to fire	Classification to DIN 4012
F_{fl}	Products for which no reaction to fire performances are determined or which cannot be classified in one of the classes A1 fl, A2 fl, B fl, C fl, D fl, E fl.	B3
E_{fl}	Products capable of resisting a small flame attack without substantial flame spread.	B2
D_{fl}	Products satisfying E fl and in addition capable of resisting, for a certain period, a heat flux	B2
C_{fl}	As class D fl but satisfying more stringent requirements.	B1
B_{fl}	As class C fl, but satisfying more stringent requirements.	B1
A2_{fl}	Satisfying the same requirements as class B fl relating to heat flux. In addition, under conditions of a fully developed fire these products will not significantly contribute to the fire load and fire growth.	A2
A1_{fl}	Class A1 products will not contribute in any stage of the fire including the fully developed fire. For that reason they are assumed to be capable of satisfying automatically all requirements of all lower classes.	A1

Key to building product classes: to DIN EN 13501

A1 = non-combustible (without combustible components)

A2 = non-combustible (with combustible components to a minor extent)

B, C = difficult to ignite

D, E = normal combustibility

F = easily ignite

s1 = no/hardly any smoke production

s2 = limited smoke production

s3 = unlimited smoke production