



Classification of the burning behaviour of floor coverings

European standardisation

Floor coverings are defined as building products, therefore they are subject to the Construction Products Regulation (CPR) and must be tested based on the European standards stated below.

- **ÖNORM EN 13501-1**: Fire classification of construction products and building elements
Part 1: Classification using data from reaction to fire tests
- **ÖNORM EN ISO 9239-1**: Reaction to fire tests for floorings
Part 1: Determination of the burning behaviour using a radiant heat source
- **ÖNORM EN ISO 11925-2**: Reaction to fire tests - ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test

Harmonisation

It often occurs that defunct regulations (eg. retracted ÖNORM B 3810) continue to reverberate in tender documents. As a result the Austrian Institute of Construction Engineering (OIB) published a comparison chart for the classification of the fire behaviour of floor coverings (Materiallist ÖE - www.oib.or.at).

EN 13501- 1	National legislation requirements	
A1 _{fl}	incombustible, low smoke emission	A
A2 _{fl} -s1		
B _{fl} -s1	hardly combustible, low smoke emission	B1
C _{fl} -s1		
D _{fl} -s1	normally combustible, low smoke emission	B2
A2 _{fl} -s2	normally combustible	
B _{fl} -s2		
C _{fl} -s2		
D _{fl} -s2		
E _{fl}	highly combustible	B3
F _{fl}		



Note 1

Please note that for the European class A1_{fi} the testing or classification of smoke emission is explicitly not required. In case of homogeneous products a low smoke emission can be presupposed. In the case of inhomogeneous products (especially products with thin coatings) the smoke emission must be checked (e.g. through A2_{fi}-s1).

Note 2

Please note that the European class F_{fi} can also mean that no classification has been carried out yet.

This allows to match the previous classifications to the new classification scheme and the other way round - helping to maintain the existing fire protection philosophy.

Please feel free to contact our flooring technology team with any questions you might have.

Hannes Vittek | email vittek@oeti.at | tel +43 699 16060818