

Classification of building products in the German construction regulations in correlation to the German DIN 4102-1 standard



Building products classification	German classification according to DIN 4102-1
Non-combustible building products	
Building products - non-combustible	A 1
	A 2
Flammable building products	
Building products - hard to burn	B 1
Building products - normally burning	B 2
Building products - easily burning	B 3

Classification of building products in the German construction regulations as compared to the classification of the European standard EN 13501-1 (excluding floor covering)

Building products classification	Additional requirements		European classification according to DIN EN 13501-1
	No smoke	No droplets	
Non-combustible building products	●	●	A1
	●	●	A2 - s1, d0
Building products - hard to burn	●	●	B - s1, d0 C - s1, d0
		●	A2 - s2, d0 A2 - s3, d0 B - s2, d0 B - s3, d0 C - s2, d0 C - s3, d0
	●		A2 - s1, d1 A2 - s1, d2 B - s1, d1 B - s1, d2 C - s1, d1 C - s1, d2
			A2 - s3, d2 B - s3, d2 C - s3, d2
		●	D - s1, d0 D - s2, d0 D - s3, d0 E
Building products - normally burning			D - s1, d1 D - s2, d1 D - s3, d1 D - s1, d2 D - s2, d2 D - s3, d2
			E - d2
			F
			F

Classification of building products in the German construction regulations as compared to the classification of the European standard EN 13501-1 for floor coverings.

Construction supervision requirements	European classification acc. DIN EN 13501-1
Inherently flame-retardant construction materials	A _{fl}
	A2 _{fl}
Construction material flame-proofed to German standard	B _{fl} - s1 C _{fl} - s1
Construction material flame-proofed to German standard	A2 _{fl} - s2 B _{fl} - s2 C _{fl} - s2 D _{fl} - s1 D _{fl} - s2 E _{fl}
Construction material flame-proofed to German standard	F _{fl}

Important:

It is **NOT** possible to directly compare the DIN 4102-1 classifications to the new European classifications. As a guideline, it is possible to find a correlation between the construction regulation classifications (i.e. non-combustible, hard to burn) and the European classification according to EN 13501-1 (as shown in chart).

Explanation of the abbreviations for flammability classification of building products (including floor coverings) according to EN 13501-1

Abbreviation	Criteria	Application field
s = Smoke	smoke emission	smoke emission requirements
d = Droplets	droplets	droplet requirements
...fl = Floorings		fire behaviour classification for floorings

Please note: Gerriets GmbH is not responsible for terminology or accuracy of information.