

# National Translations of Euroclasses for Reaction to Fire

(Based on CEPMC doc FWG 04/035. Updated within FSUW network 2006)

## 1. Main class (except floorings)

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Austria	Class A	A1-A2-part of B	Reaction to fire classes (incl smoke and droplets) adopted, but not implemented yet.	Önorm 3806 updated and issued 2005-07-01. No direct relation between national and EU classes	Yes
	Class B1	B-C-D-part of E			
	Class B2	Part of C-D-E			
	Class B3	F			
Belgium	A0	A2-s1	No decision is taken by the Belgian ministry	It seems as Belgium will follow the 'German approach' and not make a translation. * It is under discussion whether the general requirement of E/E-d2 will not be introduced.	Yes
	A1	B-s3 or C-s2			
	A2	C-s3			
	A3	D-s3			
	A4	F *			
Czech Republic	A	A1, A2	No implementation yet	EC decision adopted July 2002 ČSN EN 13501-1 and ČSN 73 0810	Yes
	B	B			
	C1	C			
	C2	D			
	C3	E or F			
Denmark	Non-combustible material	Material class A2-s1,d0	Change in building regulations 1 June 2004		Yes
	Class A material	Material class B-s1,d0			
	Class B material	Material class D-s2,d2			
	Unclassified	All lower classes			
Estonia	Non-combustible	A1, A2	New regulations in force 1 <sup>st</sup> January 2005		Yes
	Class V 1/I	B-s1,d0			
	Class V 1/II and 1/-	C-s2,d1			
	Class V 2/-	D-s2,d2			
	Class V -/-	F			
Finland	Non-combustible (in fire walls)	A1	New regulations in force 1 <sup>st</sup> July 2002. National classes are valid until the end of 2006.	B-s1,d0 for building materials used in external walls in buildings of class P1.	Yes
	Non-combustible	A2-s1,d0			
	Nearly non-combustible	A2-s1,d0/B-s1,d0 (See Notes)			
	Lining class 1/I	B-s1,d0			
	Lining class 1/II and 1/-	C-s2,d1			
	Lining class 2/-	D-s2,d2			
	Lining class -/-	F			

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
France	Non-Combustible	A1	Effective March 2003, Annex 4 to decision 31 December 2002		Yes
	M0	A2-s1,d0			
	M1	A2-s1,d1; A2-s2,d0; A2-s3,d1 B-s1,d0; B-s2,d1; B-s3			
	M2	C-s1,d0; C-s2,d1; C-s3			
	M3	D-s1,d0			
	M4 (non gouttant)	D-s2,d1; D-s3			
	M4	All classes other than E-d2 & F			
	Not classified	E-d2; F			
Germany	<u>A1/A2</u> Nichtbrennbar	A1; A2-s1,d0	Implementation not clear	Official DIBt announcement in January 2002	Yes
	<u>B1</u> Schwerentflammbar/No smoke, no droplets	B-s1,d0; C-s1,d0			
	Schwerentflammbar/Smoke, no droplets	B-s3,d0; C-s3,d0			
	Schwerentflammbar/No smoke, droplets	B-s1,d2; C-s1,d2			
	Schwerentflammbar/Smoke & droplets	B-s3,d2; C-s3,d2			
	<u>B2</u> Normalentflammbar/Smoke, no droplets	D-s3,d0; E			
	Normalentflammbar/Smoke & droplets	D-s3,d2; E-d2			
	<u>B3</u> Leichtentflammbar	F			
Greece			No implementation yet		Yes
Hungary	A1 (non combustible)		New regulations under elaboration. Deadline Jan. 2007	The 2/2002 (I.23.) BM Ministerial Decree dealing with fire issues has been implemented into the national legislation. No work is going on at this time concerning translation of the national classes.	Yes
	A2 (quasi non combustible)				
	B1 (hard combustible)				
	B2 (easy combustible)				
	B3 (easy combustible)				
	C0 (no melting)				
	C1 (melting, no droplets)				
	C2 (burning droplets/ignition)				
	F0 (no smoke)				
	F1 (moderate smoke)				
F2 (strongly smoke products)					

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Iceland	Non-combustible	A2-s1,d0	Partly implemented. Implementation to be completed in 2006	The class 'Unclassified' does not exist in official documents. Products not achieving at least Class B are not permitted to be used unprotected in buildings	Yes
	Class A	B-s1,d0			
	Class B	D-s2,d0			
	Unclassified	All other products			
Ireland	Non-Combustible	A1 without further testing	Implemented by amendment to the Building Regulations in 2006.	The National Classification was based on the BS 476.	Yes
	Limited Combustible	A2-s3,d2			
	Class 0	B-s3,d2			
	Class 1	C-s3,d2			
	Class 3	D-s3,d2			
Italy	Class 0	A1	Two different drafts are for discussion, no decision is taken.	Fire was not covered in the new building design regulation (Sept 2005). <i>Decree of Ministry 15/3/2005 Requirement of reaction to the fire of the products from construction installed in activity disciplined from specific technical dispositions of prevention fires based on the European system of classification.</i>	Yes
	Wall : Class I	A2-s1/s3,d0/d1; B-s1/s2,d0/d1			
	Class II	A2-s1/s3,d2; B-s3,d0/d1; B-s1/s3,d2; C-s1/s2,d0; C-s1/s2,d1			
	Class III	C-s3,d0/d1; C-s1/s3,d2; D-s1/s2,d0; D-s1/s2,d1			
	Ceiling : Class I	A2-s1/s3,d0; A2-s1/s3,d1; B-s1/s2,d0			
	Class II	B-s3,d0; B-s1/s3,d1; C-s1/s2,d0			
	Class III	C-s3,d0; C-s1/s3,d1; D-s1/s2,d0			
Latvia	Non – combustible	A1	New building code with Euroclasses is in preparation process.	The comparison is only for information; it is not officially approved yet.	Yes
	Hardly combustible	A2, B			
	Combustible	C, D, E			
	Hardly inflammable (textiles)				
Netherlands	Non Combustible	A1	Publication on the Dutch Off J June 2003 NEN-EN 13501-1 + New one end 2005	* Depend on application	Yes
	Class 1	A2-s2 or B-s2 *			
	Class 2	B-s2 or C-s2 *			
	Class 3	C-s2			
	Class 4	D-s2			
Norway	Non- and limited combustible	A2-s1,d0	Publication 14 <sup>th</sup> May 2003.		Yes
	Lining class In 1 (internal)	B-s1,d0			
	Lining class In 2 (internal)	D-s2,d0			
	Lining class Ut 1 (external)	B-s3,d0			
	Lining class Ut 2 (external)	D-s3,d0			

Country	National Classification	EU Classification	Implementation	Notes	Check 2006	
Poland	Non combustible	A1 & A2-s1/2/3,d0	New regulation expected 2006/2007		Yes	
	Non ignitable	A2-s1/2/3,d1/2 & B				
	Hardly ignitable	C and D-s1,d0/1/2				
	Easily ignitable	D-s2/3 and E and E-d2				
		Supplementary designation				
		Non dripping				A1; A2-s1-3,d0; B-s1-3,d0; C-s1-3,d0; D-s1-3,d0
		Self extinguishing				E
	Intensive smoke production	A2-s3,d0-2;B-s3,d0-2; C-s3,d0-2; D-s3,d0-2; E; E-d2				
Portugal	M0	A1;A2-s1,d0	No decision is taken by the Portuguese ministry	New versions of the Regulations are ready but have not been officially approved; No demands for smoke except for A2-s1,d0	Yes	
	M1	A2,d0; B,d0				
	M2	C,d0; C,d1 and C-s3				
	M3	D,d0;D-d1				
	M4	A2,d2;B,d2;C,d2;D,d2; E,d2				
	Not classified	F				
Slovakia	A – non combustible	A1	Implementation as National annex to STN EN 13501-1: 2004. Additional sub-classes are used	Translation valid up to the end 2007 or to the end of DOW of particular hEN (if relevant)	Yes	
	B	A2				
	C1	B				
	C2	C, D				
	C3	E, F				
Slovenia	Non-Combustible	A1 and A2	Implementation 2005 Additional sub-classes are used	No direct translation between new and old classes, just a comparison.	Yes	
	Class 1	B or C				
	Class 2	-				
	Class 3	D or E				
	Class 4	F				
Spain	M0	A1 or A2-s1,d0	Mandatory Implementation 28.09.06	RD 312/2005 of 18 <sup>th</sup> March 2005, published 2 <sup>nd</sup> April 2005. RD 314/2006 of 17 <sup>th</sup> March 2006, published 28 <sup>th</sup> March 2006	Yes	
	M1	B-s3,d0				
	M2	C-s3,d0				
	M3	D-s3,d0				
	M4	-				

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Sweden	Non-combustible	A2-s1,d0	Implementation October 2002		Yes
	Class I	B-s1,d0			
	Class II	C-s2,d0			
	Class III	D-s2,d0			
Switzer- land	<u>Combustibility:</u> 6 Non combustible 6q Quasi non-combustible 5 Hard combustible at 200 °c 4 Normal combustible 3 Easy combustible	All EU classification only for trade products, but not for use in building	EU classification will be implemented in the building codes perhaps 2008-2010.	There is no transformation between Swiss and EU classification, Every building product must have Swiss classification for combustibility and smoke	Yes
	<u>Smoke:</u> - A lot of smoke - Smoke - A little bit smoke				
United Kingdom (England and Wales)	Non-Combustible	A1 (provision for non testing)	Implementation with the amendment 2002 to the Building regulations	The National classifications do not automatically equate with the equivalent classifications. Therefore products cannot typically assume a European class, unless they have been tested. For walls and ceilings.	Yes
	Limited Combustible	A2-s3,d2 or better			
	Class 0	B-s3,d2 or better			
	Class 1	C-s3,d2 or better			
	Class 3	D-s3,d0 or better			
United Kingdom (Scotland)	Non Combustible	A1 or A2 (-s3,d2) (provision for non testing)	Implemented May 2006	For walls and ceilings.	Yes
	Class 0	B-s3,d2			
	Class 1	C-s3,d2			
	Class 2/3	D-s3,d2			