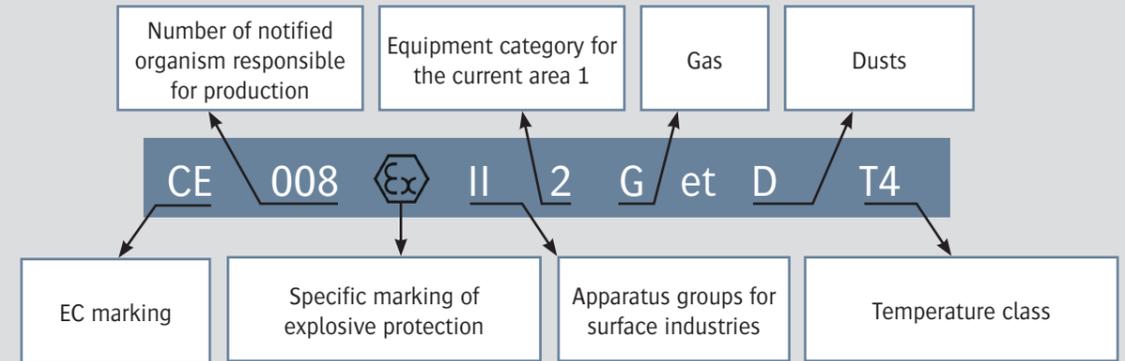


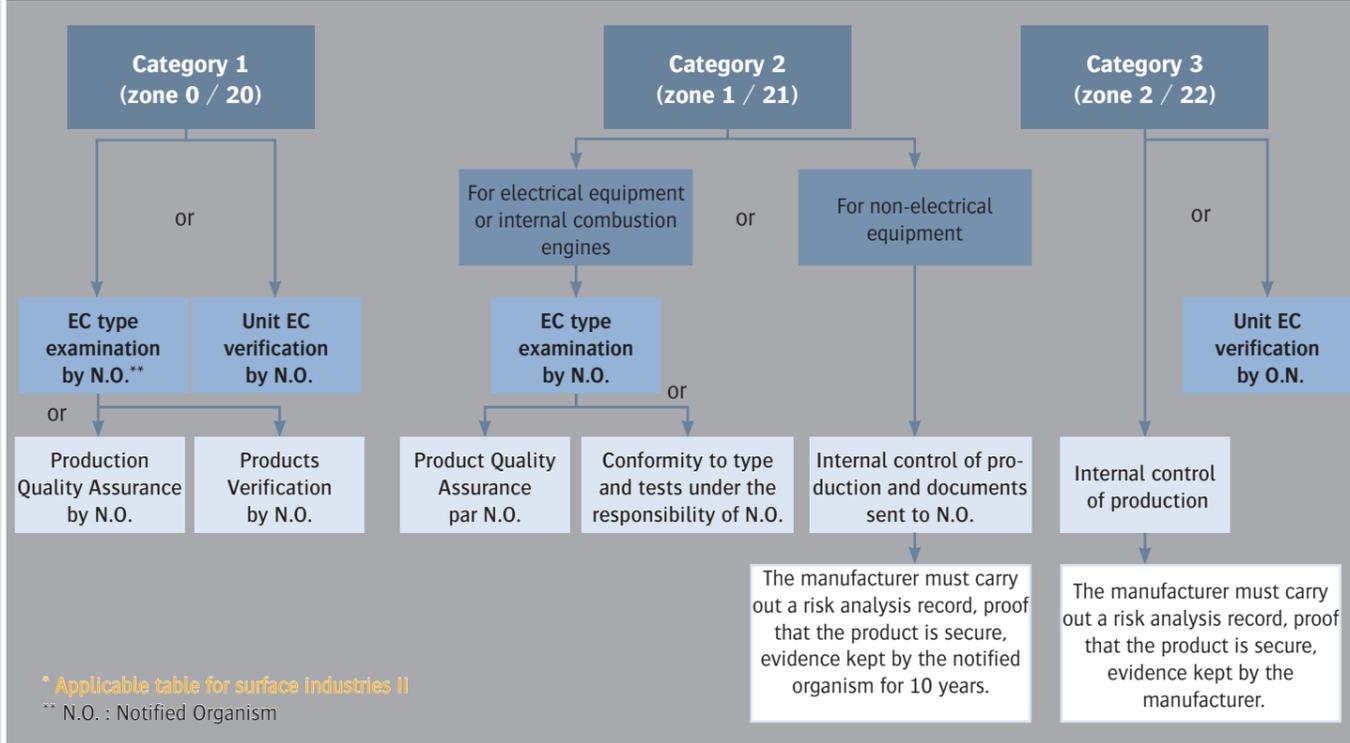
EQUIPMENT FOR SURFACE INDUSTRIES (GROUP II)

Zone	0	20	1	21	2	22
Type of atmosphere	G gas	D dust	G gas	D dust	G gas	D dust
Explosive atmosphere	Permanent presence		Intermittent presence		Episodic presence	
Category of devices that may be used in accordance with 94/9/CE	1		2		3	

PRODUCT MARKING



CONFORMITY ASSESSMENT PROCEDURE*



DEGREE OF PROTECTION IP«XX»

Protection against solid bodies		Protection against liquid bodies	
0	No protection	0	No protection
1	Protected against solid bodies ≥50 mm (eg accidental contact of the hand)	1	Protected against vertically falling water drops
2	Protected against solid bodies ≥12 mm (eg fingers of the hand)	2	Protected against water falls inclined at 15 °
3	Protected against solid bodies ≥2,5mm (eg screw tools...)	3	Protected against rain water up to 60 ° from the vertical
4	Protected against solid bodies ≥1 mm (eg fine tools, small cord)	4	Protected against water sprayed from all directions
5	Protected against dust (no harmful sediment)	5	Protected against water jets with lance from all directions
6	Totally protected against dust	6	Protected against water splashes comparable to heavy seas
		7	Protected against the effects of immersion
		8	Protected against the effects of prolonged immersion under specified conditions

GAS GROUPS

Group	Reference gas	MESG (mm)	MIC (mj)
I	Methane	1,14	0,28
IIA	Propane	0,92	0,25
IIB	Ethylene	0,65	0,07
IIC	Hydrogen/acetylene	0,37	1,011/0,017

MESG: Maximum Experimental Safe Gap
 MIC: Minimum Ignition Current
 For flame arresters, additional subdivisions IIB1, IIB2 et IIB3
 IIB1: MESG > 0,85
 IIB2: MESG > 0,75
 IIB3: MESG > 0,65

DUST GROUPS

Group	Type of dust	Size	Resistivity
IIIA	Suspended combustible particles	> 500 µm	-
IIIB	Non-conductive dusts	≤ 500 µm	>10 ³ Ω.m
IIIC	Conductive dusts	≤ 500 µm	≤10 ³ Ω.m

MAXIMUM SURFACE TEMPERATURES

Gas	T1 (450)	T2 (300)	T3 (200)	T4 (135)	T5 (100)	T6 (85)
Dust	450	300	200	135	100	85