



**NYBORG - MAWENT**

**PRODUCENT  
WENTYLATORÓW  
PRZEMYSŁOWYCH**

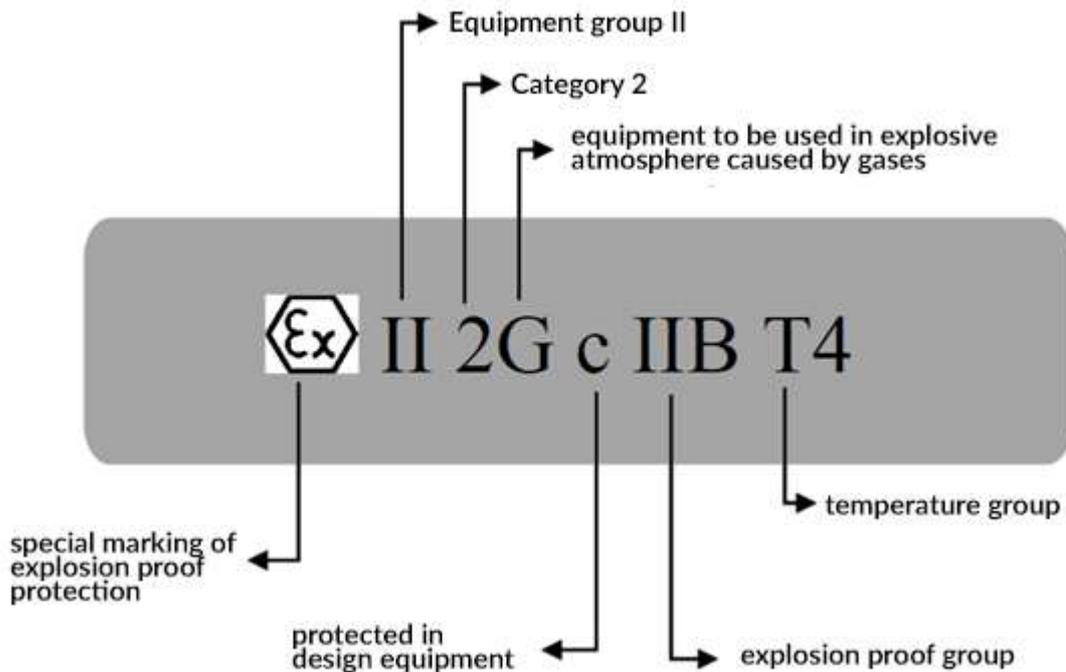
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## GENERAL INFORMATION EXPLOSION PROOF EXECUTION OF FANS

Nyborg-Mawent S.A. meets the requirements of actual ATEX directive for explosion proof fans as well as IHS certificate which confirms that our fans comply with norms for potentially explosive areas. All fans in ex-proof execution are marked with "EX" symbol as a part of their names. They are equipped with motors adapted to work in potentially explosive areas. Fans for particular "EX" zones are differentiated in design, which complies to law requirements for given zone. The installation must be performed according to DTR conditions and obligatory law.

ATEX specification		Internal zone		
		No zone	zone 22/2	zone 21/1
External zone	No zone	-	II 3/-G/D c IIB/IIIC 135°C T4	-
	zone 22/2	II -/3G/D c IIB/IIIC 135°C T4	II 3G/D c IIB/IIIC 135°C T4	II 3/2G/D b c IIB/IIIC 135°C T4
	zone 21/1	II -/ 2G/D c b IIB/IIIC 135°C T4	II 3/2 G/D b c IIB/IIIC 135°C T4	II 2G/D b c IIB/IIIC 135°C T4

Example of the name plate for explosive atmosphere:



According to directive 1999/92/WE (ATEX 137) "Work in explosive atmosphere" the employer is obliged to identify potentially explosive areas together with division into particular zones. Nyborg-Mawent offers and produces fans according to explosion proof classification received from the Client. The producer does not take any responsibility for incorrect specification of explosion-proof zones



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Conformity marking	Ex execution symbol	Ex-proof group	Category of equipment	Type of ex-proof atmosphere	Type of Ex-proof protection	Ex-proof subgroup	Temperature class	
CE		<b>II</b> <i>Ex proof equipment intended for work outside mines</i>	<b>2</b> Provides high level of protection in case of appearance of explosive atmosphere being a mixture of air, gases, steams and mist (G). This category's explosion-proof protection provides appropriate level of safety, even if damages or dangerous working conditions appear.	<b>D</b> <i>dust</i>	<b>c</b> constructional safety	<b>IIa</b> Propane group (acetone, methylated alcohol etc.)	<b>T4</b> Maximum surface temperature 135°C.; ignition temperature 135÷200°C. <b>T3</b> Maximum surface temperature 200°C. ; ignition temperature 200÷300°C. <b>T2</b> Maximum Surface temperature 300°C.; Ignition temperature 300÷400°C. <b>T1</b> Maximum Surface temperaturę 450°C. ; Ignition temperature >450°C.	
				<b>G</b> <i>Gas, steam, mist</i>				<b>IIb</b> Ethylene group (ethylene, hydrogen sulphide etc.)
				<b>D</b> <i>dust</i>				
			<b>3</b> Provides standard level of protection in the areas where explosive atmosphere being a mixture of air, gases, steams and mists (G) appear or can appear rarely or with low level of possibility and for a short time. This category's explosion proof protection provide safety in standard working conditions.	<b>G</b> <i>Gas, staem, mist</i>				