

European ATEX Directive 94/9 EC or 100A

1- Standards

Zones	0	20	1	21	2	22
Type of atmosphere	G	D	G	D	G	D
Explosive atmosphere	Continuous presence		Intermittent presence		Occasional presence	
Equipment category	1		2	3		

G : gas D : (Dust)

Noisy le sec - FRANCE	Type FLe	096555
Ex eds IIC T4 LCIE Ex 98.012	N° 03123456	2 x 36 W (CEI 61-1)
DIP A21 Ta = 85°C	220/240 V 50/60 Hz - 0.35 A CLASS 1	
	IP 66/67 - 20°C ≤ Ta ≤ 55°C	

Fluo "e" zone 21 and 22

New ATEX product marking:

- Since 1st July 2003, all electrical equipment for explosive atmospheres sold in Europe area must be ATEX approved and consequently bear the standard ATEX marking on the product name-plate in accordance with the new European product classification.

European classification of ATEX equipment :

- Directive 94/9 EC defines a new set of hazardous locations and makes a distinction between gas and dust atmospheres. The directive accordingly introduces zones 20, 21 and 22 which correspond to dust atmospheres, and the notion of categories 1, 2 and 3 for equipment.

2- The industrial environment

The presence of explosive gases or dusts on sites where future modifications may occur requires special attention regarding the choice of equipment in hazardous areas.

To allow easier modifications of the process without having to change the electrical equipment, ATX recommends the specification and use of equipment for zone 1 on all on-shore or off-shore sites.

standards and the industrial environment

ATX recommendations for choosing the correct equipment for zone 2

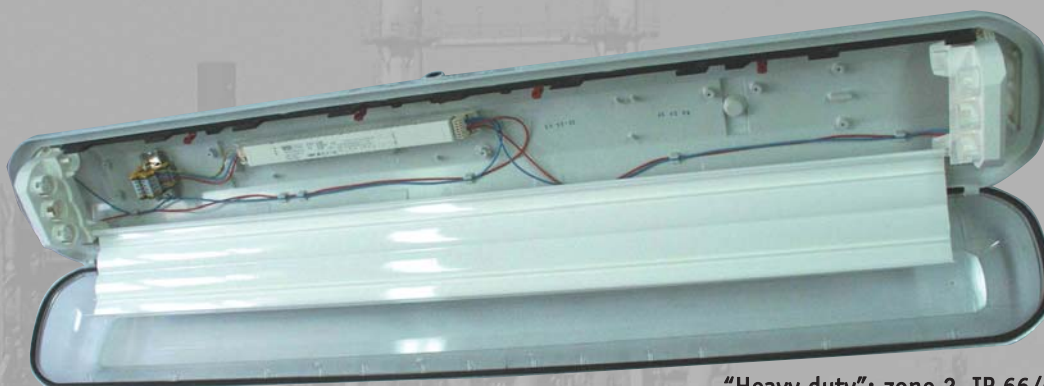
3 types of product are available for zone 2, depending on the industrial environment on site :

- “Safety Plus”: zones 1 and 2 range which are already specified by some large oil companies requiring maximum safety

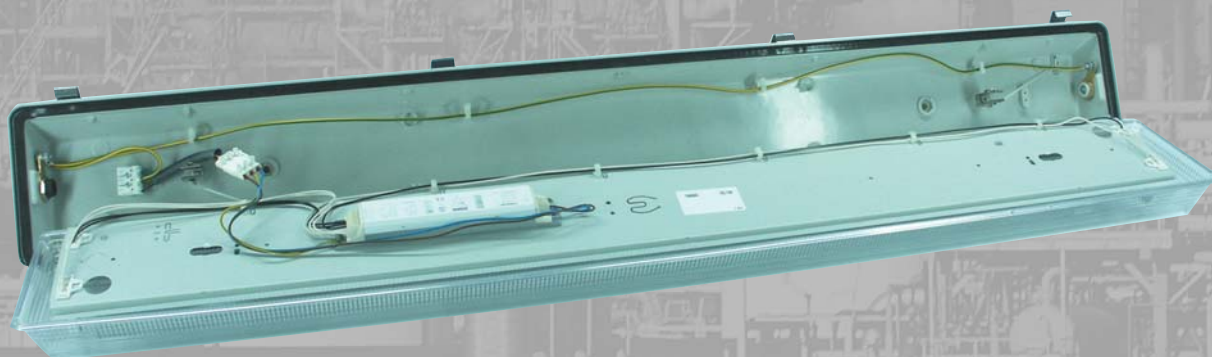
- High mechanical resistance : zone 2 heavy duty
- Low mechanical stress : zone 2 light duty



“Safety Plus”: zones 1 and 2 IP 66/67
- 20 joules (IK10)



“Heavy duty”: zone 2 IP 66/67
- 20 joules (IK10)



“Light duty”: zone 2 IP 65/67
- 5 joules (IK08)