



(2) **Equipment and protection systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(3) Number of the EC type examination certificate: **INERIS 01ATEX0072X**

(4) Protection apparatus or system:

LIGHTING FIXTURE TYPE EVA...

(The type is completed by numbers corresponding to manufacturing variation)

(5) Manufacturer: **APPARECCHIATURE ELETTRICHE DI SICUREZZA (A.E.S)**

(6) Address: Circonvallazione per S. Angelo n°1
20098 S. Giuliano Milanese (MI)
ITALIE

(7) This protection system or equipment and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/CE 23th March 1994, certifies that this protection system or equipment fulfills the Essential of Health and Safety Requirements relating to the design and construction of equipments and protection systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N° P35606/01

(9) The respect of the Essential Health and Safety Requirements is ensured by:


- conformity with:

EN 50 014 of June 1997 + A1 and A2
EN 50 018 of August 1994

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

(10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protection system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or the protection system will have to contain:

 II 2 G EEx d IIC T6 or EEx d IIC T3

Verneuil-en-Halatte, 2001 12 03



X. LEFEBVRE

Engineer at the Laboratory of Certification of
Materials ATEX



Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy manager of Certification



(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 01ATEX0072 X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM

Lighting fixture type EVA... intended to contain various types of lamp defined below.

It consists of a gate lamp closed by a glass protection sphere.

PARAMETERS RELATING TO THE SAFETY

Maximum Supply voltage : 440 volts (AC) or 48 volts (DC)

Authorized Maximal powers and characteristics of the lamps :

See table below.

MARKING


Marking must be readable and indelible; it must comprise the following indications:

A.E.S

Circonvallazione per S. Angelo n°1

20098 S. Giuliano Milanese (MI)

ITALIE

- EVA... (*)
- INERIS 01ATEX0072 X
- (Serial number)
- (year of construction)
-  II 2 G
- EEx d IIC T (**)
- T.cable : (***)
- DO NOT OPEN WHEN ENERGIZED
- AFTER DE ENERGIZING, WAIT 15 MINUTES BEFORE OPENING

(1) The type is completed by numbers corresponding to manufacturing variation

(*) see table below

(**) see table below

(***) see table below

Type of Lighting fixture (*)	Type and power of the lamp	Temperature class (**)	Cable temperature (***)
EVA50	Fluorescent compact 15 watts	T6	N.C
	Incandescent 100 watts	T3	160°C
	Halogen 100 watts	T3	160°C
EVA100	Fluorescent compact 20 watts	T6	N.C
	Incandescent 150 watts	T3	190°C
	Halogen 150 watts	T3	190°C
	Mercury vapour 80 watts	T3	190°C
EVA200	Fluorescent compact 23 watts	T6	N.C
	Incandescent 200 watts	T3	210°C
	Halogen 200 watts	T3	210°C
	Mercury vapour 125 watts	T3	210°C
	Blended light 160 watts	T3	210°C
EVA300	Incandescent 300 watts	T3	200°C
	Mercury vapour 250 watts	T3	200°C
	Blended light 250 watts	T3	200°C

N.C = Not concerned

The whole of marking can be carried out in the language of the country of use.

The protection apparatus or system must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

Each exemplar of the equipment hardware defined above must have successfully passed before delivery an overpressure test in accordance with section 16.1 of standard EN 50 018, of a period comprised between 10 and 60 secondes under 14,2 bar performed for flame-proof compartment.

(16) DESCRIPTIVE DOCUMENTS

The technical report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Technical Note (2 pages) signed on 30.10.2001
- Plan n°EVA50 page 1/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA50 page 2/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA100 page 1/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA100 page 2/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA200 page 1/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA300 page 2/2 rev.3 of 12.10.2001 signed on 30.10.2001
- Plan n°EVA300 page 2/2 rev.3 of 12.10.2001 signed on 30.10.2001

(17) SPECIAL CONDITIONS FOR SAFE USE

For the resistance to impact, the lighting fixture can insure a low protection, the user shall insure an supplementary protection in case of heavy mechanical risk.

For connection with the external electrical circuits, the user will have to choose an input of cable entry and a cable compatible with the maximum temperature indicated on the equipment.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- conformity to the European standards EN 50 014 and EN 50 018
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.