

[1]

**EU-TYPE EXAMINATION CERTIFICATE**

 [2] **Equipment and Protective System intended for use in potentially explosive atmospheres  
Directive 2014/34/EU – Annex III**

 [3] Certificate Number: **EPT 17 ATEX 2880 X** Issue 0

 [4] Equipment: **Lighting fixtures**

 Series: **EVFD-..L**

 [5] Manufacturer: **CORTEM S.p.A.**

 [6] Address: **Via Aquileia n° 10, 34070 Villesse (GO) - Italia**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N° EPT.17.REL.01/55701


[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the standards:

**EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014, EN 60079-28:2015**

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

 [12] The equipment shall include the sign  and the following strings:

**II 2GD**
**Ex db op is IIB T6 Gb**
**-40°C ≤ Ta ≤ +60°C**
**Ex tb op is IIIC T85°C Db**

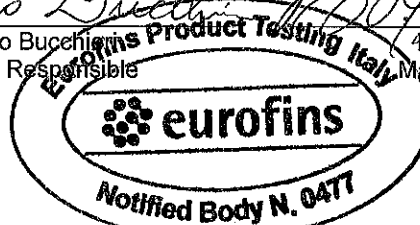
or

**II 2GD**
**-20°C ≤ Ta ≤ +60°C**
**Ex db op is IIB+H2 T6 Gb**
**Ex tb op is IIIC T85°C Db**

 Place and date of issue:  
**Torino, 2017-12-29**


  
 \_\_\_\_\_  
 Dionisio Bucchieri  
 Directive Responsible

  
 \_\_\_\_\_  
 Paolo Trisoglio  
 Managing Director


**SGQ N° 133A  
PRD N° 119B**

 Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 3 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

[13]

**ANNEX**

[14]

**EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2880 X**

Issue 0


**[15] Equipment description**

The luminaires Series EVFD-...L are used in hazardous area, indoor and/or outdoor, where flammable or explosive vapours gases or dust can be present.

They are composed of an enclosure for the electronic driver housing and another separated enclosure for LED tube. The different parts of each chamber are assembled together by means of cylindrical joints while, the cable passage between the two housings, is made by a Cortem cable gland (already ATEX Certified).

The enclosure for LED tube includes a protection glass tube sealed on two metallic end fittings through a resin. The enclosure for the electronic driver, made of metallic material, contains also the terminals for the cable connections.

The equipment has the types of protection "Ex d" and "Ex t".

The luminaires are suitable for:

- gas group IIB (for the minimum ambient temperature of -40°C);
- gas group IIB+H2 (for the minimum ambient temperature of -20°C);
- dust group IIIC.

Lighting fixtures are equipped with the following:

- internal-external earth screws;
- metallic reflector;
- metallic stay bolt for assembly fixture;
- metallic protection guard (on request);

**Identification and characteristics:**

MODEL		POWER	VOLTAGE	FREQUENCY	N LED
EVFD-1L	1 x Cortem LED Tube	38 W	120-240 VAC	50/60 Hz	72
EVFD-2L	2 x Cortem LED Tube	80 W	100-277 VAC	50/60 Hz	144

Protection degree: IP66

**Cable entries**

The accessories used for cable entries and for unused holes have to be subjected to a separate suitable ATEX certification.

**Warning label**

WARNING: Do not open when energized

WARNING: Do not open when an explosive atmosphere is present

WARNING: Thread type and size: 3/4" NPT

**Routine tests**

The manufacturer has to perform the routine overpressure test on the flameproof enclosures with the static method (clause 15.2.3.2 of EN 60079-1) at the pressure indicated below:

Minimum ambient temperature / °C	Pressure value / bar	
	Electronic driver compartment	Led compartment
-20	14.4	17.7
-40	14.4	23.0

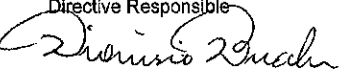


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**ANNEX**

[14]

**EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2880 X**

Issue 0


**[16] Assessment Report n° EPT.17.REL.01/55701**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and of the verification of compliance with the harmonized technical standards listed in this Certificate; performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

**[17] Special condition for a safe use**

- Flameproof joints cannot be repaired.
- Use screws with property class  $\geq$  A2-70

**[18] Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

**[19] Descriptive documents**

The equipment object of this Certificate is described by the following documents. Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev.	Date	Scheduled
Technical Note	A4-6693	0	2017-04-28	✓
Drawing	A3-6692	0	2017-04-28	✓
Safety and maintenance instructions	F-449	0	2017-04-28	✓
EU Declaration of conformity	0227	00	2017-02-20	-

**[20] Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the 2014/34/EU Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

**[21] Certificate History**

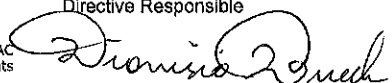
This Certificate is at its first issue.



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End of Certificate

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