



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CML 15.0002 Issue No: 0 Certificate history:  
Issue No. 0 (2015-02-18)

Status: **Current** Page 1 of 3

Date of Issue: **2015-02-18**

Applicant: **CORTEM S.p.A.**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
**Italy**

Electrical Apparatus: **CCA-03Ex Emergency Lamp**  
*Optional accessory:*

Type of Protection: **Flameproof 'd', Dust 'tb'**

Marking:  
Ex d IIC T6 Gb  
Ex tb IIIC T85°C Db  
Tamb -20°C to +55°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

D R Stubbings MIET

*Position:*

Technical Director

*Signature:  
(for printed version)*

*Date:*

2015-02-18

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Certification Management Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port  
CH65 4LZ  
United Kingdom





# IECEX Certificate of Conformity

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Manufacturer: **CORTEM S.p.A.**  
Via Aquileia 10  
34070 Villesse  
Gorizia  
**Italy**

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/CML/ExTR15.0003/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/08](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The CCA-03Ex Emergency Lamp consists of an aluminium or stainless steel component approved main enclosure with a threaded cover, and two smaller stainless steel or aluminium enclosures fitted either side with mounting brackets. There are two 1/2" NPT cable entries into the sides of main enclosure, fitted with glands for the inlet and outlet cables, and two 3/8" NPT threads for connection to the two LED enclosures.

For additional details and conditions of manufacture refer to the Annex.

**CONDITIONS OF CERTIFICATION: NO**

### Annex:

[IECEx CML 15.0002 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 15.0002 Issue 0  
**Applicant:** Cortem Group  
**Apparatus:** CCA-03Ex Emergency Lamp



## Description

The CCA-03Ex Emergency Lamp consists of an aluminium or stainless steel component approved main enclosure with a threaded cover, and two smaller stainless steel or aluminium enclosures fitted either side with mounting brackets. There are two ½” NPT cable entries into the sides of main enclosure, fitted with glands for the inlet and outlet cables, and two 3/8” NPT threads for connection to the two LED enclosures.

The two smaller enclosures are cylindrical in shape with a cover secured to the main enclosure with two fastening screws. The cover has a glass window which is sealed with silicone resin and secured internally with a threaded retaining ring.

There are two ½” NPT threaded entries in the base of the main enclosures and as well as an indication LED mounted in an M16 threaded hole.

There are suitably approved cable glands fitted to the main enclosure and the two smaller enclosures with cables passing between to allow connection of the driver circuitry inside the main enclosure to the LEDs in the smaller enclosures. These cable glands and cables are fitted by the manufacturer in accordance with IEC 60079-14.

Inside the main enclosure there are two mounting plates, one with the LED driver circuitry mounted to it, and the other is fitted with terminals and a component approved battery pack to allow the LEDs to operate in the emergency mode.

## Conditions of Manufacture

The following conditions apply to the manufacturer of the equipment:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Each power supply enclosure shall be subjected to a routine hydrostatic overpressure test in accordance with IEC 60079-1, clause 16. A pressure of 13.5 bar shall be held for at least 10 seconds. There shall be no detrimental damage observed.
- iii. Each LED lamp enclosure shall be subjected to a routine hydrostatic overpressure test in accordance with IEC 60079-1, clause 16. A pressure of 12.6 bar shall be held for at least 10 seconds. There shall be no detrimental damage observed or leakage via the cemented joint.
- iv. The cables and glands used to make connections between the main enclosure and the two lamp enclosures shall be suitable for the types of protection (Ex d IIC Gb/Ex tb IIIC Db), have a minimum IP66 rating and a minimum service temperature range of -20°C to +70°C.

