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

Certificate No.: IECEx CML 19.0003X

Issue No: 0

Certificate history:
Issue No. 0 (2019-05-20)

Status: **Current**

Date of Issue: **2019-05-20**

Applicant: **Cortem Group**
Via Aquileia 10, 34070 Villesse, Gorizia
Italy

Equipment: **EVML-50 LED luminaires**

Optional accessory:

Type of Protection: **Increased Safety "eb", Encapsulation "mb", Optical Radiation "op is", Dust Ignition "tb"**

Marking:

Ex eb mb op is IIC T* Gb

Ex tb op is IIIC T* Db

Ta= -20°C to +**°C

"*" – Refer to description for temperature class, maximum surface temperature and ambient temperature.

Approved for issue on behalf of the IECEx Certification Body: R C Marshall

Position: Certification Officer

Signature:
(for printed version)

Date: 2019-05-20

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.

Certificate issued by:

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

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Manufacturer:	**Cortem Group** 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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR19.0002/00

Quality Assessment Report:

IT/CES/QAR06.0002/12

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EVML-50 LED luminaires lighting fixtures are composed of an encapsulated LED board and an Ex e protected terminal box. The housing is made from either Aluminium alloy or Stainless Steel and has fins for the dissipation of heat.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

IECEx CML 19.0003X Iss. 0 Certificate Annex.pdf

Annexe to:	**IECEx CML 19.0003X Issue 0**
Applicant:	**Cortem Group**
Apparatus:	**EVML-50 LED luminaires**

Description

The EVML-50 LED luminaires are comprised of an encapsulated LED board and an increased safety protected terminal box. The housing is made from either Aluminium alloy or Stainless Steel and has fins for the dissipation of heat.

The cover glass is a temperate plate and fixed by means of an aluminium or stainless-steel disk and screws. The glass has been subjected to a special treatment for protection from UV.

Inside the Ex e enclosure, the following component approved parts are used:

Cabur TR.2 (ATEX: CESI03ATEX022U, IECEx: IECEx CES11.004U)
Cabur RN.2 (ATEX: CESI03ATEX073U, IECEx: IECEx CES11.009U)
Or similar terminals with the same electrical characteristics

Temperature Class/ Maximum surface Temperature (°C)				
Model	Lamp	Temperature Class		
		Ta <+40°C	Ta <+50°C	Ta <+60°C
EVML-50..	LED Board 19W	T5/95°C	T4/105°C	T4/115°C
EVML-50/110	LED Board 12W Max	T6/64°C	T6/74°C	T5/84°C
EVML-50/12..	LED Board 18W Max	T6/66°C	T6/76°C	T5/86°C
EVML-50/24D	LED Board 16W	T6/66°C	T6/76°C	T5/86°C
EVML-50/24A	LED Board 13W	T6/64°C	T6/74°C	T5/84°C
EVML-50/48D	LED Board 15W	T5/81°C	T5/91°C	T4/101°C
EVML-50/48A	LED Board 15W	T6/77°C	T5/87°C	T4/97°C

*Some temperature classes/ max. surface temperatures depend on the position of the lighting fixture.

Nomenclature for luminaires:

EVML-50/./../../..

- **"NO NUMBER"** FOR 220VAC LED BOARD
  110 FOR 110VAC/DC LED BOARD
  12 FOR 12VAC/DC LED BOARD
  24D FOR 24VDC LED BOARD
  24A FOR 24VAC LED BOARD
  48D FOR 48VDC LED BOARD
  48A FOR 48VAC LED BOARD
- **"NO NUMBER"** FOR STANDARD VERSION
  P FOR PORTABLE VERSION
  O FOR PORTHOLE VERSION
- **"NO NUMBER"** FOR STANDARD VERSION
  G FOR GLOBE VERSION
- OTHERS PARTICULARS DESCRIPTIONS (if required)

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Conditions of Manufacture

The following are conditions of manufacture:

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. The luminaires shall be subjected to a routine test as per EN/IEC 60079-18 clause 9.2 and EN/IEC 60079-7 clause 7.1, performed at 1500V r.m.s. for 60 seconds.

iii. Each piece of "m" equipment shall be subjected to a visual inspection in accordance with EN/IEC 60079-18 clause 9.1. No damage shall be evident such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion or softening.

Special Conditions for Safe Use

The following are special conditions for safe use:

i. Only suitably approved increased safety cable glands marked "Ex eb" shall be used.