



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 17.0004 Issue No: 0 Certificate history:
Issue No. 0 (2017-04-05)

Status: **Current** Page 1 of 3

Date of Issue: **2017-04-05**

Applicant: **Cortem Group**
Via Aquileia,
10-34070 Villesse (GO),
Italy

Equipment: **SLED Lighting Fixture**
Optional accessory:

Type of Protection: **Ex db eb op is, Ex tb**

Marking:
Ex db eb op is IIB+H2 T5/T6 Gb
Ex tb IIIC T100°C/T85°C Db IP66

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

A C Smith

Position:

Technical Operations Director

*Signature:
(for printed version)*

Date:

2017-04-05

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

Certificate No: IECEx CML 17.0004 Issue No: 0
Date of Issue: 2017-04-05 Page 2 of 3
Manufacturer: **Cortem Group**
Via Aquileia,
10-34070 Villesse (GO),
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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/ExTR17.0010/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Lighting Fixtures SLED wide area flood light series is suitable for use in outdoor and indoor hazardous areas, where inflammable or explosive vapours, gases or dusts are present.

The SLED-600 is made with two separate explosion proof compartments, one containing the LED board, another containing the control gear. In the SLED-400 and the SLED-250 there is only one compartment with the LED board and the control gear. The explosion proof enclosure is composed of one body and one cover containing a glass window. These two components are joined by a flanged joint with screws.

Electrical terminations to the lighting fixture are through an increased safety housing on the rear.

SPECIFIC CONDITIONS OF USE: NO

No special conditions of safe use.

Annex:

[IECEX CML 17.0004 Annex.pdf](#)

Annexe to: IECEx CML 17.0004 Issue 0
Applicant: Cortem Gorup
Apparatus: Lighting Fixtures SLED



1 Product Description

The Lighting Fixtures SLED wide area flood light series is suitable for use in outdoor and indoor hazardous areas, where inflammable or explosive vapours, gases or dust are present.

The SLED-600 is made with two separate explosion proof compartments, one containing the LED board, another containing the control gear. In the SLED-400 and the SLED-250 there is only one compartment with the LED board and the control gear. The explosion proof enclosure is composed of one body and one cover containing a glass window. These two components are joined by a flanged joint with screws.

An Ex e housing on the rear of the equipment contains the terminals for the cable connection.

2 Conditions of Manufacture

- i. When installed, the equipment shall be subjected to an dielectric strength test using a test voltage of 1500 Vac applied between the circuit and earth for 60 s. Alternatively, a voltage of 20% higher may be applied for 1 s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.
- ii. The routine overpressure test shall be carried out in accordance with the static method (IEC 60079-1, clause 15.1.3.1) at the following pressures:
 - 12.6 Bar – LED enclosure (SLED-600)
 - 15.8 Bar – control gear enclosure (SLED-600)
 - 12.6 Bar – full enclosure (SLED-250 & SLED-400)

3 Drawings List

Drawing No	Sheets	Rev	Approved date	Title
A3-6653	1 of 4	0	05/04/2017	SLED series wide area flood light Assembly and External Dimensions
A3-6653	2 of 4	0	05/04/2017	SLED series wide area flood light Ex d and gaskets details Op is Details
A3-6653	3 of 4	0	05/04/2017	SLED series wide area flood light Detail of connection
A3-6653	4 of 4	0	05/04/2017	SLED series wide area flood light Ex d e Details of mounting

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