



# 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 ITS 12.0004X issue No.:1  
Status: **Current**  
Certificate history:  
issue No. 1 (2012-11-15)  
Issue No. 0 (2012-6-8)

Date of Issue: 2012-11-15 Page 1 of 4

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

Electrical Apparatus: **Tiger 400 Luminaire and nR enclosure**  
*Optional accessory:*

Type of Protection: **Ex nR (restricted breathing) Ex tb (protection by enclosure)**

Marking: **(Vertically mounted)**  
Ex nR IIC T3 Gc Tamb -50°C to +45°C  
Ex tb IIIC T174°C IP66 Db Tamb -50°C to +45°C, or  
Ex nR IIC T3 Gc Tamb -50°C to +60°C  
Ex tb IIIC T194°C IP66 Db Tamb -50°C to +60°C  
**(Horizontally mounted)**  
Ex nR IIC T3 Gc Tamb -50°C to 45°C  
Ex tb IIIC T195°C IP66 Db Tamb -50°C to +45°C or  
Ex nR IIC T2 Gc Tamb -50°C to 60°C  
Ex tb IIIC T210°C IP66 Db Tamb -50°C to 60°C

Approved for issue on behalf of the IECEx Certification Body: A T Austin

Position: Certification Officer

Signature:  
(for printed version)

Date:

2012-11-15

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:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom





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

#### 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2010</b> Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

*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/ITS/ExTR12.0004/00

GB/ITS/ExTR12.0004/01

#### Quality Assessment Report:

IT/CES/QAR06.0002/06



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## Schedule

### EQUIPMENT:

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

Floodlight series TIGER are assembled in a single restricted breathing Ex nR housing composed by an aluminium body with a glass cover. They are 400W in power with an input voltage range from 110V to 480V at 50 or 60Hz. The lamps are either HG (Mercury vapour lamp), NA (High Pressure Sodium Vapour lamp) or HA (Metal Halide Lamps). The lamp holder is Edison E40 ceramic type meeting the requirements of EN 60238:2004 + A1:2008, certified by IMQ, certificate number EE108. The mercury vapour lamp uses a Hg type ballast and the high pressure sodium and metal halide utilises Na type ballast. All lamp types utilise a capacitor rated 250 V or 300V max, 20 to 50 uF meeting the requirements of EN 61347-1:2001 and EN 61347-2-9:2003, certified by IMQ, IMQ certificate number E7454.

Customer connection is provided by IECEx Ex e certified terminals inside the restricted breathing enclosure. Entry into the enclosure is facilitated by means of a cable gland mounted on the gasket assessor on the floodlight body. All the cable glands are IECEx certified with a minimum degree of protection IP66. The standard internal reflector is of a symmetric type, the lampholder and lamp are centrally mounted with reference to the glass cover. As a special request the lamp can be manufactured with an Asymmetric reflector, in this case the lampholder and lamp are installed on a different position near the bottom of the floodlight.

### CONDITIONS OF CERTIFICATION: YES as shown below:

Do not open maintain or service in an area where an explosive atmosphere may be present.

When the gasket is broken (e.g. for maintenance reasons) it shall be replaced and re applied as per the manufacturers instructions

For models with a temperature class of T3 and maximum ambient of 60°C then select cables with a minimum temperature of 100°C. For models with a temperature class of T3 and maximum ambient of 45°C then select cables with a minimum temperature of 90°C and models having a temperature class of T2 then select cables with a minimum temperature of 150°C.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue No: 1: The Tiger has been re assessed for suitability in Dust Zone 21. Marking revised from Ex tc to Ex tb.