



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

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Issue 0 (2014-09-16)

Status: **Current** Issue No: 1

Date of Issue: 2020-07-20

Applicant: **COELBO S.r.l.**
V. Santa Margherita, 83
20861 Brugherio (MB)
Italy

Equipment: **Lighting fittings type EVO / EVS**

Optional accessory:

Type of Protection: **"db", "tb"**

Marking: Ex db IIC T6 – T3, Gb
Ex db I Mb,
Ex tb IIIC T85°C – T200°C Db IP66/67

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **COELBO S.r.l.**
V. Santa Margherita, 83
20861 Brugherio (MB)
Italy

Additional
manufacturing
locations:

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 equipment 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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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 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:

[DE/EPS/ExTR14.0038/01](#)

Quality Assessment Report:

[IT/CES/QAR10.0009/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Lighting fittings Series EVO, made in Aluminium light alloy (Mg+Ti+Zirconium < 6%), are complete of thermoresistant toughened glass (sealed with a mastic suitable for working temperature range equal to -70°C ÷ +250°C) and stainless steel external bolts and screw; EVO device is normally used as portlighting fitting. Particularly interesting is the execution with built in switch (allowing lamp to be lighted directly from the observation position and for the strictly required time) and its feature of possible replacement of the internal lamp without removing of the armour.

Lighting fittings Series EVS, made in Aluminium light alloy (Mg+Ti+Zirconium < 6%), are complete of thermoresistant toughened glass (sealed with a mastic suitable for working temperature range equal to -70°C ÷ +250°C) and stainless steel external bolts and screw. The equipment is for dimensions and form suitable to be placed under low ceiling, underground passages and in any other place where available space doesn't allow installation of traditional lighting fittings.

The apparatuses provide installation of:

- halogen lamps up to 70 W;
- fluorescent energy saving lamps with rating power 21 W max.;
- LED lamps with rating power 15 W max.

All lamps are equivalent to 100 W incandescent lamps.

In addition, for both series EVO and EVS versions in Stainless Steel AISI 316L (letter "I" is added to code), Brass CW608N CuZn38Pb2 (OT58) (letter "B" is added to code) or Cast Iron (letter "C" is added to code) are available.

Standard external epoxyvinil coating is RAL 7000 while white RAL 9003 epoxyvinil internal coating is provided so as to improve luminous performances.

Maximum ambient temperature range is from -50°C to +80°C.

Temperature class in relation to ambient temperature and wattage is as follows:

Installed bulb type/power	Temperature class		Max ambient temp.
	Gas	Dust	
Halogen/42 W (equivalent 60 W incandescent)	T4	T135°C	up to +40°C
	T3	T200°C	up to +80°C
Fluorescent Energy Saving/ Equivalent to 100 W	T6	T85°C	up to +50°C
	T5	T100°C	up to +60°C
	T4	T135°C	up to +80°C
LED	T6	T85°C	up to +50°C
	T5	T100°C	up to +60°C
	T4	T135°C	up to +80°C
Halogen/70 W (equivalent 100 W incandescent)	T3	T200°C	up to +80°C

For external connection of lighting fitting EVO / EVS only certified Ex db cable gland or conduit entries shall be used. Unused openings shall be closed. The IP66/67 rating shall be maintained by used entry devices.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Standards updated.