



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

Certificate No.: **IECEX INE 20.0051X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-04-22
Applicant: **TechNed BENELUX BV**
Veersteeg 15
4212 LR Spijk
Netherlands
Equipment: **Luminaires type IQL-LED45*****
Optional accessory:
Type of Protection: **db eb, tb**
Marking: Ex db eb IIC T6 Gb
Ex tb IIIC T85°C Db IP66
The complete marking is specified in Annex.

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

2021-04-22

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:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks |
for sustainable development



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 20.0051X**

Page 2 of 3

Date of issue: 2021-04-22

Issue No: 0

Manufacturer: **TechNed BENELUX BV**
Veersteeg 15
4212 LR Spijk
Netherlands

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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

[FR/INE/ExTR20.0055/00](#)

Quality Assessment Report:

[FR/INE/QAR20.0004/01](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 20.0051X**

Page 3 of 3

Date of issue: 2021-04-22

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This range of luminaire is suitable for explosive gas atmospheres of Group IIC protected by flameproof enclosure "Ex db" and "eb" and for dust Group IIIC protected by enclosure "Ex tb".

The luminaires series IQL-LED45*** are constituted by :

- A lamp compartment protected by "Ex db" made in light alloy with a glass sealed on the cover. The cover is fixed on the body by a threaded flameproof joint. The LED sources including the electrical parameters are specified in the descriptive documents of the manufacturer.
- Terminal box protected by "Ex eb" intended to receive certified terminals. The terminal box is separated from the lamp compartment by a 3-wires sealed bushing.

These equipment get the degrees of protection IP66 in accordance with IEC 60529 standard

SPECIFIC CONDITIONS OF USE: YES as shown below:

- During the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk.
- The dimensions of flameproof joints are different from the values specified in the tables of the IEC 60079-1 standard. The flameproof joints are not intended to be repaired.

The other specific conditions are stipulated in the user manual.

Annex:

[IECEX INE 20.0051X-00_Annex.pdf](#)



IECEX Certificate of Conformity

Certificate No.: IECEx INE 20.0051X

Issue No.: 0

Page 1 of 1

Annex: IECEx INE 20.0051X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage: 240 V AC/DC $\pm 5\%$ (or lower in accordance the manufacturer's instructions)

These luminaires can be use in the range of ambient temperatures from -30°C to $+55^{\circ}\text{C}$.

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- TechNed BENELUX BV
- The Netherlands
- IQL-LED45*** ⁽¹⁾
- IECEx INE 20.0051X
- (Serial number)
- Ex db eb IIC T6 Gb and/or
- Ex tb IIIC T85°C Db IP66
- T.amb : -30°C up to 55°C
- (Rated voltage and rated current and/or rated power)
- WARNINGS:
 - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
 - DO NOT OPEN WHEN ENERGIZED

⁽¹⁾ The type is completed by numbers and letters corresponding to the manufacturing variations.

ROUTINE EXAMINATIONS AND TESTS

- In accordance with clause 16.1 of the IEC 60079-1 standard, each piece of equipment has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under 15.9 bar.
- In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test shall be performed according to the relevant standard.