



# 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](http://www.iecex.com)

Certificate No.: **IECEX IBE 19.0032** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-11

Applicant: **Adolf Schuch GmbH**  
Lichttechnische Spezialfabrik  
Mainzer Straße 172  
67547 Worms  
Germany

Equipment: **LED-Steep roof light fitting type e 821.xxL...**

Optional accessory:

Type of Protection: **Increased Safety in combination with powder filling and encapsulation as well as flameproof enclosure and intrinsic safety and protection by enclosure**

Marking: Ex eb mb q IIC T4 Gb  
Ex db eb mb q IIC T4 Gb  
Ex eb ib mb q IIC T4 Gb  
Ex db eb ib mb q IIC T4 Gb  
Ex tb IIIC T80 °C Db  
-30 °C ≤ T<sub>amb</sub> ≤ +65 °C (maximum values)

Approved for issue on behalf of the IECEx  
Certification Body:

**Alexander Henker**

Position:

**Deputy Head of department Certification Body**

Signature:  
(for printed version)

Date:

2020-02-11

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.
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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany



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Manufacturer: **Adolf Schuch GmbH**  
Lichttechnische Spezialfabrik  
Mainzer Straße 172  
67547 Worms  
Germany

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

IEC 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling "q"  
Edition:4.0

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:

[DE/IBE/ExTR20.0002/00](#)

Quality Assessment Report:

[DE/PTB/QAR09.0004/04](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The LED-Steep roof light fitting type e 821.xxL... is used to illuminate factory shops and stores. It is suitable for the operation in hazardous areas of zone 1 and 21. The luminaire is provided in 2 sizes.

The luminaire consists of the sheet metal enclosure, the reflector and the frameless glass, made of safety glass. The cable entry is carried out by means of cable glands located at the back or at side.

Inside the luminaires are the separately certified electrical components as LED modules, terminals and LED control gear as well as a switch and monitoring module.

### Technical data:

rated voltage:	220 V...250 V AC (50...60 Hz) 176...275 V DC
input power:	maximum 80 W
ambient temperature range:	-30 °C up to +65 °C

These values are maximum values. The actual values are determined by the built-in components. The manufacturer has been specified the rated values and ambient temperature range in the context of these limiting values and ensures compliance with the maximum surface temperature of the equipment and the permissible operating temperature of the components. Through-wiring, selection of the cable and cable gland may be restricted in some types of the luminaire.

**SPECIFIC CONDITIONS OF USE: NO**