



# 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 PRE 14.0058X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2015-10-30\)](#)  
[Issue 0 \(2015-01-20\)](#)  
Date of Issue: 2021-05-07  
Applicant: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
Germany  
Equipment: **Loudspeaker 8494**  
Optional accessory:  
Type of Protection: **db eb mb tb**  
Marking: Ex db eb mb IIB+H<sub>2</sub> T4 Gb  
Ex db eb mb IIC T4 Gb  
Ex tb IIIC T105°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Bjørn Spongsveen**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

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1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**DNV Product Assurance AS**  
Veritasveien 3  
Hovik 1363  
Norway





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Page 2 of 4

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Manufacturer: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
**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 60079-18:2017** 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 60079-7:2017** 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 Reports:

[NO/PRE/ExTR14.0058/01](#)

[NO/PRE/ExTR14.0058/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/16](#)



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Certificate No.: **IECEX PRE 14.0058X**

Page 3 of 4

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This Certificate covers a loudspeaker. For IIC sintered metal of stainless steel, type SIKA-R 200 is used. For IIB +H2 sintered metal of bronze, type SIKA-B 200 is used.

## Type designation

### Type

8494 / B – S – .. – .. – .. – ..

8494 / B – L – .. – .. – .. – ..

8494 / C – S – .. – .. – .. – ..

8494 / C – L – .. – .. – .. – ..

### Marking

Ex db eb mb IIB+H<sub>2</sub> T4 Gb

Ex tb IIIC T105°C Db

Ex db eb mb IIC T4 Gb

Ex tb IIIC T105°C Db

## Electrical / Technical Data

max. input voltage: 100 V

max. input current: 0,25 A

Frequency range: 150 ... 20000 Hz

Ambient temperature:  $-50\text{ °C} \leq T_a \leq +60\text{ °C}$

## Variants

1. «B & C» in type designation indicates gas group IIB+H<sub>2</sub> or IIC.
2. With encapsulated e-chamber and permanently connected cable.
3. «L & S» in type designation indicates long flare or short flare.

## Degrees of protection (IP Code)

IP66 and IP67 (for e-chamber) according to IEC 60529 Edition 2.1.

## Routine tests

Visual inspection according to IEC 60079-18 clause 9.1

Dielectric strength test according to IEC 60079-7 clause 7.1 respective IEC 60079-18 clause 9.2.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

The Loudspeaker shall only be installed in areas where there is a low risk of impact.

When the bracket of the loudspeaker is mounted onto the construction, the bracket must be connected to earth potential through the construction.



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Certificate No.: **IECEX PRE 14.0058X**

Page 4 of 4

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

1) Updated to latest edition of standards.