



# 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 EPS 15.0032** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2015-06-16)

Status: **Current** Issue No: 1

Date of Issue: 2020-07-16

Applicant: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
Germany

Equipment: **LED Floodlight Type 6525**

Optional accessory:

Type of Protection: **nR, db ec, tb op is**

Marking: Ex nR IIC T6...T5 Gc (Type 6525/11...)  
Ex nR IIC T6...T4 Gc (Type 6525/21...)  
Ex db ec IIC T4 Gc (Type 6525/22...)  
Ex tb op is IIIC T80°C...T100°C Db (all Types)

Approved for issue on behalf of the IECEx  
Certification Body:

**H. 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](http://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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Certificate No.: **IECEX EPS 15.0032**

Page 2 of 4

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Manufacturer: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
Germany

Additional manufacturing locations: **R. STAHL (P) LTD**  
Plot No. 5, Malrosapuram Road  
Sengundram Indl Area  
Singaperumal Koil  
Kancheepuram Dt., Tamil Nadu 603 204  
India

**R.STAHL Schaltgeräte GmbH**  
Nordstraße 10  
99427 Weimar  
Germany

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 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

**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:

[DE/EPS/ExTR14.0098/00](#)

[DE/EPS/ExTR14.0098/01](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/15](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0032**

Page 3 of 4

Date of issue: 2020-07-16

Issue No: 1

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The LED Floodlight series 6525 is an explosion-proof electrical luminaire with LED Lamps. They are suitable for illumination of operating and storage facilities in hazardous areas for use in Equipment Protection Level Gc, Db and Dc.

Refer to annex for type designation, ambient temperature and temperature classification.

**SPECIFIC CONDITIONS OF USE: NO**



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Certificate No.: **IECEx EPS 15.0032**

Page 4 of 4

Date of issue: 2020-07-16

Issue No: 1

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

Issue 1: New generation enclosure, inclusion of Ex db ec version, addition of LED driver, update of type code and standards edition

**Annex:**

[IECEx EPS 15.0032 - Annex.pdf](#)



Annex to Certificate  
IECEX EPS 15.0032 Issue No.: 1



Type designation:

6525	/	*	*	*	*	-	*	*	*	*	_****_***
a		b	c	d	e		f	g	h	i	j

- a Type series
- b Generation  
1 – 1.  
2 – 2.
- c Ex - Protection  
1 – nR  
2 – ec
- d Size in Height  
1 – 600  
2 – 520
- e Light Distribution  
1 – 20°  
2 – 40°  
4 – 120°
- f Wattage  
1 – 100W  
2 – 120W  
3 – 160W  
4 – 210W/190W  
5 – 225W
- g LED - Driver  
1 – 1x OT 150  
2 – 2x OT 150  
3 – 1x OT 165  
4 – 2x OT 165  
5 – 6040  
6 – 6040 with DALI  
7 – Inventronics
- h Control gear assembly  
\* – without reference to explosion-protection
- i Thermal protection  
0 – without  
1 – with
- j additional information without reference to explosion-protection

Ambient temperature and temperature classification:

Version	Power LED control gear (if different)	Ambient Temperature	Temperature Class	Maximum Surface Temperature	Special requirements to operating temperature for loop in loop out		
					0A < I ≤ 10A	10A < I ≤ 16A	
					to cables	to cables	to cable glands
6525/11... Ex nR Ex tb op is	120 W / 210 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T5	+95°C	---	---	---
	120 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$	T6	+80°C	---	---	---
	210 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$	T6	+80°C	---	---	---
6525/21... Ex nR Ex tb op is	100 W EUD-150S EUD-200S EUD-240S	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T6 <sup>2)</sup> / T5	+80°C	≥75°C	≥90°C	≥80°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$	T6	+80°C	---	---	---
	100 W 6040	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T4	+100°C	≥75°C	≥95°C	≥85°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$	T6	+80°C	---	≥85°C	≥75°C
	160 W / 120 W EUD-200S EUD-240S 6040	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T5	+100°C	≥70°C	≥100°C	≥85°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		+100°C	---	≥90°C	≥80°C
	225 W / 190 W EUD-240S	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T5	+100°C	≥85°C <sup>3)</sup>	≥110°C <sup>4)</sup>	≥95°C
	225 W / 190 W 6040	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T4	+100°C	≥75°C	≥95°C	≥85°C
$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		+100°C		---	≥85°C	≥80°C	
6525/22... Ex db ec Ex tb op is	100 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$	T4	+100°C	---	≥95°C	≥85°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		+100°C	---	≥85°C	≥75°C
	160 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		+100°C	≥70°C	≥100°C	≥85°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		+100°C	---	≥90°C	≥80°C
	225 W	$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$		+100°C	≥75°C	≥95°C	≥85°C
		$-60^{\circ}\text{C}^1 \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$		+100°C	---	≥85°C	≥80°C

1) Lamp start at  $T_a \geq -40^{\circ}\text{C}$

2) If the luminaire not mounted with control gear upwards with through wiring  $I \leq 10\text{ A}$

3) Cable gland with permissible service temperature of  $\geq 80^{\circ}\text{C}$  required

4) For ambient temperatures  $\leq 45^{\circ}\text{C}$ , cables with a permitted service temperature of  $95^{\circ}\text{C}$  can be used