



# 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 ITS 20.0035X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-03-09

Applicant: **PALAZZOLI S.p.A.**  
Via F. Palazzoli, 31  
25128 Brescia (BS)  
Italy

Equipment: **RINO LED RL-vvvv-II-ddd-bbb-ta-xxx-yy-zz-kk-aaa-www-cg-eeee-nnn**

Optional accessory:

Type of Protection: **Ex ec, Ex tb, Ex mb**

Marking: Ex ec mc IIC Tx Gc  
Ex tb IIIC T85°C Db  
0°C up to +45°C for Emergency version (EXE1 and EXE3 models, digit [vvvv])  
For non-Emergency version (EXN0 models digit [vvvv]):  
Minimum ambient temperature is: -40°C or -35°C  
Maximum ambient temperature is: +55°C or +60°C  
see details in the annex

Approved for issue on behalf of the IECEx  
Certification Body:

**Wesley Van Hill**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

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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.



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# IECEx Certificate of Conformity

Certificate No.: **IECEx ITS 20.0035X**

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Date of issue: 2021-03-09

Issue No: 0

Manufacturer: **PALAZZOLI S.p.A.**  
Via F. Palazzoli, 31  
25128 Brescia (BS)  
**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 60079-18:2017** 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 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

[GB/ITS/ExTR20.0039/00](#)

Quality Assessment Report:

[IT/IMQ/QAR14.0001/07](#)



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Date of issue: 2021-03-09

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is a Waterproof LED light fixtures with metal body, glass diffuser and electronic Controlgear for LED modules (Driver) and Electronic Controlgear for emergency lighting (Inverter).

The type code of product is:

**RINO LED RL-vvvv-ll-ddd-bbb-ta-xxx-yy-zz-kk-aaa-www-cg-eeee-nnn**

additional details are reported in the annex.

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

See user manual to minimize the risk of electrostatic charge

## Annex:

[IECEx ITS 20.0035X Annex for IECEx CoC .pdf](#)



## Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 20.0035X	Issue No. 0
Annex No. 1		

1. Applicant:

Palazzoli S.p.A.  
Via F. Palazzoli  
25128 Brescia, 31  
Italy

2. Description of the equipment

**General product information:**

The equipment is a Waterproof LED light fixtures with metal body, glass diffuser and electronic Controlgear for LED modules (Driver) and Electronic Controlgear for emergency lighting (Inverter). The body of the enclosure can be made of stainless steel AISI 304, 316L or painted steel.

Temperature class is in accordance with the table below:

Model	Max ambient temperature range [°C]	Temperature class	
		Gas	Dust
EXE	+45°C	T6	T85°C
EXN0 version with LED current > 400 mA	+60°C	T5	T85°C
EXN0 version with LED current < 400 mA	+55°C	T5	T85°C

The type code of product is:

RINO LED RL-vvvv-ll-ddd-bbb-ta-xxx-yy-zz-kk-aaa-www-cg-eeee-nnn, where:

digit	Meaning
RINO LED RL	Commercial product name
vvvv	Version: <ul style="list-style-type: none"><li>• EXN0: ATEX light fixture - Non Emergency</li><li>• EXE1: ATEX light fixture - Emergency 1h</li><li>• EXE3: ATEX light fixtures - Emergency 3h</li></ul>
ll	Length: <ul style="list-style-type: none"><li>• 69: Length 690 mm</li><li>• 13: Length 1300 mm</li></ul>
ddd	Diffuser material: <ul style="list-style-type: none"><li>• TGL: Transparent Glass</li><li>• OGL: Opal Glass (Satin finished)</li></ul>

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bbb	Body material: <ul style="list-style-type: none"><li>• 304: AISI 304</li><li>• 316: AISI 316L</li><li>• PSG: Painted Galvanised Steel</li></ul>
ta(*)	Ambient temperature: <ul style="list-style-type: none"><li>• 45: t<sub>amb</sub> = 0°C up to +45 °C, only for for EXE1 and EXE3 versions</li><li>• 55: t<sub>amb</sub> = -35°C or -40°C* up to +55 °C, only for EXN0 version with LED current &gt; 400 mA</li><li>• 60: t<sub>amb</sub> = -35°C or -40°C* up to +60 °C, only for EXN0 version with LED current ≤ 400 mA</li></ul>
xxx	Number of LED: <ul style="list-style-type: none"><li>• 048: 1 x 48 LED (only for Length 690 mm)</li><li>• 072: 1 x 72 LED (only for Length 690 mm)</li><li>• 096: 2 x 48 LED (only for Length 1300 mm)</li><li>• 144: 2 x 72 LED (only for Length 1300 mm)</li></ul>
yy	Dimming type: 00: No dimming
zz	Colour rendering index (CRI): <ul style="list-style-type: none"><li>• 80: Ra ≥ 80 (typical)</li><li>• zz: Other values ≠ 80</li></ul>
kk	Colour temperature: <ul style="list-style-type: none"><li>• 30: 3000K</li><li>• 40: 4000K</li><li>• 50: 5000K</li><li>• 65: 6500K</li></ul>
aaa	LED driving current: <ul style="list-style-type: none"><li>• aaa: 325 mA to 500 mA with step of 25 mA</li></ul>
www	Optic Type: <ul style="list-style-type: none"><li>• 000: No lens (Extra wide beam distribution 110°)</li><li>• WBC: Wide beam comfort distribution (88°)</li><li>• MBD: Medium beam distribution (60°)</li><li>• NBD: Narrow beam distribution (30° x 90°)</li><li>• www: Other type of optic</li></ul>
cg	Type of cable gland: <ul style="list-style-type: none"><li>• PL: Plastic cable gland(*)</li><li>• BR: Nickel-plated brass cable gland</li></ul>
eeee	Number of cable entry: <ul style="list-style-type: none"><li>• 1000: 1 entry (Mains)</li><li>• 1100: 2 entries at Mains side</li><li>• 1110: 2 entries at Mains side + 1 entry at other side</li><li>• 1111: 2 entries at Mains side + 2 entries at other side</li></ul>

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<b>Annex No. 1</b>		

	<ul style="list-style-type: none"> <li>• eeee: Other combinations of entries</li> </ul>
nnn	Custom characteristics: <ul style="list-style-type: none"> <li>• 000: Code to handle special versions such as pre-mounted supply cable with or without plug/connector, different external colour, etc.</li> </ul>

With plastic cable gland, ta min. = -35 °C

With Nickel-plated brass cable gland, ta min=- -40°C

### 3. Specific Conditions of Use:

- See user manual to minimize the risk of electrostatic charge

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Waterproof light fixtures RINO LED-EX series Plafoniere stagne serie RINO LED-EX Type of protection Ex "ec" "mc" IIC / Ex "tb" IIIC	Doc. N. 423	00	2020-12-04
ATEX LIGHTING LED FIXTURES for fixed installation Series RINO LED-EX	C010269	00	2020-12-04
Cover page of Annex 1 (Datasheets) of the Technical File	Annex 1 TF Doc. N. 423	00	2020-11-12
Annex 4 of Technical File - Explanation of the markings	Annex 4 FT Doc. N. 423	00	2020-12-04
RINOLED EX 690 EMERGENZA	821180EX	00.4	29/01/2020
RINOLED EX 690 STD	821182EX	00.4	28/01/2020
RINOLED EX 1300 EMERGENZA	821380E	00.3	29/01/2020
RINOLED EX 1300 STD	821382EX	00.3	29/01/2020
Ass.Scocca 690 EX	26451	07	27/03/2020
Ass.Scocca 1300 EX	26453	09	27/03/2020
Ass.Scocca 690 EX EMERGENZA	26459	06	09/11/2020
Ass.Scocca 1300 EM EX	26461	05	09/11/2020
Piastra cablaggio RINOLED atex	53505	04	05/03/2020
Ass. Corpo 690 AISI304 1IN+INS+CAV+TERRA	54735	09	22/09/2020
Ass. Corpo 1300 AISI304 1IN+INS+CAV+TERRA	54799	10	22/09/2020
ELASTOSIL® R 401/60 S	-	-	23.11.2020
Technical Data Sheet LOXEAL 59-20	ST5920e/6	-	07/12
COMPACT SILICONE- STANDARD TYPE - DATA SHEET	-	00	23/06/2008
INVER s.p.a. Scheda tecnica	88965	-	2016-02-16

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88965 - POLIEST BT TRIBO BIANCO RAL 9016			
Makrolon® 2607	-	-	03.12.2018
SINGLE-CONDUCTOR CABLES INSULATED IN FEP + FEP, DOUBLE INSULATION, T180°C	-	-	October 2016
LATAMID 66 H2 G/25-V0HF1	-	-	10/03/2016
Istruzione fissaggio guarnizioni sul corpo plafoniera inox standard e atex	N° 137	02	24-06-2015
Definizione spessore del rivestimento superficiale, tipologia di vernice a polvere, caratteristiche di adesione e resistenza, pretrattamento.	N° 104	7	03/04/2019
ASS PACCO BATTERIE	26489	00.0	14/12/2020

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IECEX Certified Components on Which Conformance Depends					
Item	Description	Manufacturer	Type	Certificate No. / Standards	Coding / Ratings
1	N/A	N/A	N/A	N/A	N/A

Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	N/A	N/A

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