



EU - Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 17 ATEX 0053X

(4) Product: **Flameproof luminaire type RAMBO-Ex-LED**

(5) Manufacturer: **VYRTYCH a.s.**

(6) Address: **Židněves 116, 294 06 Březno, Czech Republic**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

17/0053 dated 21.09.2017

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-18:2014,
EN 60079-31:2014, EN 60079-28:2015**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2G Ex db eb mb op is IIC T4 Gb** – see cl. 15

 **II 2D Ex tb op is IIIC T59°C Db**

This certificate is valid till: **30.09.2022**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.09.2017

Page: 1/3

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Physical-Technical Testing Institute
Ostrava - Radvanice

Schedule

(13)

(14) **EU - Type Examination Certificate No. FTZÚ 17 ATEX 0053X**

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
--	3	00	21.07.2017	Technical description
--	1	00	19.07.2017	Technical conditions for mounting
Assembly RAMBO-Ex LED	1	01	24.05.2017	Drawing
Labels	1	--	19.07.2017	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.09.2017

Page: 3/3

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 17 ATEX 0053X**

(15) Description of Product:

The flameproof luminaire type RAMBO-Ex LED consists of four parts: body from coated metal plate or stainless steel plate with end-covers, polycarbonate tube with internal aluminium covering profile, polycarbonate side plugs with sealing and plastic or metal Ex- cable glands (resp. blanking elements) – see document “Technical conditions for mounting” and aluminium profile with electrical package.

On the aluminium profile are installed: electronic ballast type HFX LED in Ex-protection Ex eb mb IIC T4 Gb, three-pole (multipole) terminal block WAGO 262-283 or 262-233 in Ex- protection Ex e IIC Gb for connecting supply cable with wires to 4mm², off-load switch VOD-Ex in Ex- protection Ex db IIC Gb – alternative facility. As light source is used LED module type ARC 600 (25W) or ARC 1200 (50W) in Ex-protection Ex mb op is IIC T4 Gb.

Electrical parameters:

Nominal voltage: 110-254V AC; 50/60Hz; or 220-250V DC.

The marking of product without off-load switch:  II 2G Ex eb mb op is IIC T4 Gb

(16) Report Number.: 17/0053

(17) Specific Conditions of Use:

1. Ambient temperature range: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ – for type RAMBO-Ex-LED-2500-118-4K.
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$ – for type RAMBO-Ex-LED-5000-136-4K.
2. The type luminaire without installed off-load switch must be labelled “Do not open when energized”.
3. The luminaire is intended for fixed installation and must be labelled “Warning - potential danger of electrostatic charging” - see Technical conditions.
4. The Technical conditions of maintenance must be complied.
5. The power supply cable shall be effectively fixed to prevent pulling or twisting.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 22.09.2017

Page: 2/3



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 17 ATEX 0053X

(4) Product: **Flameproof luminaire type RAMBO-Ex-LED**

(5) Manufacturer: **VYRTYCH a.s.**

(6) Address: **Židněves 116, 294 06 Březno, Czech Republic**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 17 ATEX 0053X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018; EN 60079-1:2014; EN 60079-7:2015
EN 60079-18:2014; EN 60079-31:2014; EN 60079-28:2015**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

(11) The marking of the product shall include the following:



**II 2G
II 2D**

**Ex db eb mb op is IIC T4 Gb – see cl.15
Ex tb op is IIIC T59°C Db**

(12) This certificate is valid till: **31.01.2026**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.01.2021

Page: 1/2

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 17 ATEX 0053X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Verification according to the newest standards;
- Prolongation of certificate validity.

This supplementary certificate describes of using new version of LED module with marking BG4 as a basic used component, existing LED module with marking BG3 shall be used as alternative component.

Design, type marking and electrical parameters of luminaire mentioned in the basic certificate are unchanged.

The luminaire is verified according to new standard EN IEC 60079-0:2018.

The marking of product without off-load switch:  II 2G Ex eb mb op is IIC T4 Gb

(16) Report Number: 17/0053/1

(17) Specific Conditions of Use:

1. Ambient temperature range: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ for type RAMBO-Ex-LED-4000-118-4K
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$ for type RAMBO-Ex-LED-8000-136-4K
2. The type luminaire without installed off-load switch must be labelled "Do not open when energized".
3. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions for mounting.
4. The Technical conditions for mounting must be complied.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	02	3	03.12.2020	Technical description
--	02	1	20.01.2020	Technical conditions for mounting
Labels	d)	1	03.12.2020	Drawing

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 29.01.2021

Page: 2/2