

# MANUFACTURER'S DECLARATION

VYR TYCH a.s., on the basis of tests performed according to ČSN EN 13823, ČSN EN ISO 11925-2 and issued classification protocol No. PK1-01-21-063-C-0 by the accredited testing laboratory No. 1026

**PAVUS. a.s. - FIRE TESTING LABORATORY, VESELÍ NAD LUŽNICÍ**

declares in accordance with

**ČSN EN 13501-1**

that the light

**RAMBO-LED-FL**

meets the requirements of the above standard and is classified according to the reaction to fire:

**B-s1, d0**

Annex:

Reaction to fire classification report No. PK1-01-21-063-C-0

  
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Česká republika  
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Prepared by:  
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**PAVUS, a.s.**

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NOTIFIED BODY 1391  
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PRODUCTS CERTIFICATION N° 3041

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# REACTION TO FIRE CLASSIFICATION REPORT

**Object of classification:** *Construction products excluding floorings and linear pipe thermal insulation products in accordance with ČSN EN 13501-1:2019, cl. 11*

**Classification report No:**

**PK1-01-21-063-E-0**

**Product name:**

Luminaire body *RAMBO-LED-FL*

**Sponsor:**

**VYRTYCH a.s.**  
č.p. 116  
294 06 Židněves  
Czech Republic

**Prepared by:**

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Authorized body AO 216  
Notified body 1391  
Accredited certification body for products certification No. 3041  
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## 1. INTRODUCTION

- 1.1. This classification report defines the classification assigned to Luminaire body *RAMBO-LED-FL* in accordance with the procedures given in ČSN EN 13501-1:2019.
- 1.2. This classification report consists of four pages and may only be used or reproduced in its entirety.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1. General

The product Luminaire body *RAMBO-LED-FL* is manufactured by VYRTYCH a.s., Židněves 116, 294 06 Březno, Czech Republic.

The luminaire is designed for environments with a high risk of damage, such as prison cells, psychiatric hospitals and underpasses, lighting of traffic tunnels, industrial collectors and service shafts.

Relevant standard: ČSN EN 60598-1.

### 2.2. Product description

The body of the luminaire is made of 2 mm thick sheet steel, painted with powder paint RAL 9003. An opal polycarbonate tube is inserted into the bent steel sheet of the luminaire body (producer Bayer AG, material Makrolon ET3137 550115) with an outer diameter of 70 mm and a wall thickness of 4 mm. This tube is sealed with a polycarbonate special sealing plugs (producer VYRTYCH, material PC LUPOY GP-2301F from producer LG Chemical). The steel sheet is finished with plastic fronts made of polycarbonate (producer VYRTYCH, material PC CALIBRE 303EP-22 from producer Trinseo).

Drawings of the product are given in the test report No. Pr-21-1.128.

## 3. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

### 3.1. Reports

Name of Laboratory Address Accreditation No.	Name of sponsor	Report ref. No. Date of issue	Test method and date Field of application rules and date
PAVUS, a. s. Veselí nad Lužnicí ATL No. 1026	VYRTYCH a.s. č.p. 116 294 06 Židněves Czech Republic	Pr-21-1.128 2021-09-20	ČSN EN 13823:2020 ČSN EN 13238:2010
		Pr-21-1.136 2021-09-20	ČSN EN ISO 11925-2:2020

3.2. Results

Test method	Parameter	No. Tests	Results	
			Continuous parameter - mean	Compliance with parameters
ČSN EN 13823	FIGRA <sub>0.2MJ</sub> (W/s) THR <sub>600s</sub> (MJ) LFS < edge of specimen SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) TSP <sub>600s</sub> (m <sup>2</sup> ) No flaming droplets/ particles	3	17.8 1.5 - 4.0 38.7 -	≤ 120 (B) ≤ 7.5 (B) yes (B) ≤ 30 (s1) ≤ 50 (s1) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.1 Opal polycarbonate tube	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.2 Opal polycarbonate tube	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.1 Plastic front made of polycarbonate	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.2 Plastic front made of polycarbonate	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.1 Luminaire body	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)
ČSN EN ISO 11925-2 Exposure = 30 s according to 7.3.3.2 Luminaire body	F <sub>s</sub> ≤ 150 mm within 60 s No ignition of the filter paper	6	- -	yes (B) yes (d0)

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of Classification

This classification has been carried out in accordance with ČSN EN 13501-1:2019.

#### 4.2. Classification

The product Luminaire body *RAMBO-LED-FL* in relation to its reaction to fire behaviour is classified:

**Reaction to fire classification: B – s1, d0**

#### 4.3. Field of application

This classification is valid for the following product parameters:

Type of luminaire body:	only the tested type and other types differing only in length
Geometry:	the construction and shape cannot be changed, only the length can be changed from the dimensions
Parts materials:	only tested materials
Dimensions:	the sheet thickness of the luminaire body can be increased; the powder coating can be reduced; other components must be unchanged

The classification is valid for the following end use applications:

Mounting method:	only horizontally
Substrate:	installation on substrates of reaction to fire A1 or A2-s1,d0 density of at least 715 kg/m <sup>3</sup>

## 5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

This classification is valid, unless the conditions, under which it was issued, have been changed. The sponsor may request the issuing authority to review the influence of changes to the classification validity.

*Elaborated by:*



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*Approved by:*



Jan TRIPES

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