



TYPE EXAMINATION STATEMENT

CATEGORY 3 EQUIPMENT

[1]

[2]

Equipment intended for use in potentially explosive atmospheres

[3]

Type Examination Statement number: **IMQ 24 ATEX 002 X**

[4]

PRODUCT: **LED luminaires**
TYPE/SERIES: **3F Tank Rock**

[5]

MANUFACTURER: **3F Filippi S.p.A.**

[6]

ADDRESS: **Via del Savena, 28 – 40065 Pianoro (BO) - Italy**

[7]

IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU with reference to the requirements covered by the standards below defined.

[8]

Compliance with EHSRs given in the Directive 2014/34/EU, except for those listed at item 17 of the annex, has been assured by compliance with the requirements of the following standard:

EN IEC 60079-0:2018; EN 60079-15:2010; EN 60079-31:2014

[9]

If the sign "X" is placed after the statement number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this statement

[10]

This TYPE EXAMINATION STATEMENT relates only to the design and construction of the specified equipment. Further requirements of the Directive are **not covered** by this statement.

[11]

The marking of the equipment shall include the following:



II 3G Ex nR IIC T6 Gc
II 3D Ex tc IIIC T85°C Dc

This document is composed of 4 pages including 1 annex

FIRST ISSUE:

2024/04/17

CURRENT ISSUE:

2024/04/17

PREVIOUS ISSUE:

EXPIRING DATE

2034/04/16

B.U. PRODUCT
CERTIFICATION SECTOR – MANAGER



PRD N° 005 B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

[12] **ANNEX**

[13] Type Examination Statement number: **IMQ 24 ATEX 002 X**

[14] **Description of product:**

Led luminaires, Series 3F Tank Rock, are products for lighting classified areas as Zone 2 (or Zone 22) of industrial environment.

They are composed of an enclosure, which contain the electronic driver, terminals for connection and the led strip. The enclosure is composed of a polycarbonate tube (LEXAN SLX2571T) which can also be supplied with a GI-CHEM treatment (co-extruded Durabio D5380) with a thickness of approximately 40micron to improve its resistance to chemical agents. The metal end covers are subject to natural oxidation treatment with a thickness of approximately 15micron. The Heads can be milled (Extrusion Aluminium Alloy EN-AW 6082) or obtained by die-casting (Continuous Casting Alluminium Alloys EN AB ed AC 46100 - Al Si 11 Cu 2 (Fe)). The die-cast heads can be painted with Architectural Polyester paints which are polyester powder paints free from TGIC and lead. The length of the tube changes in respect of the power of the equipment.

Enclosure body and its covers are secured through stainless steel screws while the degree of protection (IP66) is guaranteed by a FKM O-ring (IDROMAT, -20°C+200°C) placed between them and between the screw and each cover.

The luminaire is always provided with an already ATEX certified (Ex eb/Ex ta) cable gland and supply cable type H07RN-F 3x1,5mm² or 5x1,5mm² (minimum length of 1.5 m) connected to the driver inside the enclosure of the luminaire using 3-pole or 5-pole connector.

LEDs modules and LEDs strips are used as light source.

Equipment is suitable for Group II, category 3G and 3D.

It has respectively the types of protection "Ex nR" and "Ex tc".

[14.1] **Models/Series Identification:**

Key code	
3F Tank Rock	W L
Version	
Lens	
Lite	Lite
Power	
2x9	2x9
2x18	2x18
2x22	2x22
13	13
45	45
55	55
70	70
CRI e K	
827	827
830	830
835	835
840	840
850	850
857	857
865	865
927	927
930	930
935	935
940	940
950	950
965	965
Dimming	
ON-OFF	
DALI	DALI
Distribution	
WIDE	WIDE
MEDIUM	MEDIUM
CONC	CONC
UGR	UGR
AS	AS
BAT	BAT
BAT WD	BAT WD
IPERCONC	IPERCONC
Length	
675 mm	675
1265 mm	1265
1560 mm	1560
1850 mm	1850

[12] ANNEX

[13] Type Examination Statement number: **IMQ 24 ATEX 002 X**

[14.2] **Ratings:**

Voltage: 220-240Vac, 50-60Hz

Power: 2x9W, 2x18W, 2x22W, 13W, 45W, 55W, 70W

[14.3] **Safety Ratings:** -

[14.4] **Ambient temperature and temperature classes:**

Operative temperature range: -20°C ÷ +40°C

[14.5] **Degree of protection (IP code):**

IP66

[14.6] **Warnings:**

Do not open when energized.

Attention to electrostatic charging. Clean only with damp cloth, without rubbing.

Do not open in an area where an explosive atmosphere may be present.

[15] **Report:** AT21-0066191-01

[15.1] **Routine (factory) tests:**

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

For "Ex nR" use, the manufacturer shall carry out the routine test according to clause 23.2.3.2.1.2 of EN 60079-15:2010.

[15.2] **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;

the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[15.3] **Installation conditions:**

The equipment is foreseen to be installed in locations where there are environmental conditions, as specified at clause 1 of EN 60079-0. Installation and use at environmental conditions outside of above-mentioned intervals request special considerations and additional measures by the side of installer or user.

Installation of equipment shall be done according to EN 60079-14.

Specific condition of use (X) / Schedule of limitations:

[16] User shall periodically clean the enclosure in order to avoid the formation of dust layer higher than 5 mm.

[12] ANNEX

[13] Type Examination Statement number: **IMQ 24 ATEX 002 X**

The user must ensure adequate fixing of the cable or ensure an installation condition that prevents the cable from being pulled.

Equipment without test port. The replacement of gaskets after any activity requiring the opening of the case must be performed by the manufacturer, its assistance service or qualified personnel.

[17] **Essential Health and safety Requirements:**

This Statement **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [8].

This Statement **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 to be fulfilled by manufacturer according Annex VIII of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [8], the following are considered relevant to this equipment, and conformity is demonstrated in the report:

n/a

[18] **Descriptive documents:**

DL-AT21-0066191-01, Rev. 0, dated 2024-03-08

[19] **Certification Validity Conditions:**

This Statement is subject to general rules for the issuing of products type certificates and to special requirement for equipment intended for use in potentially explosive atmospheres.

This Statement is issued according to product certification system 1a of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production and it does not permit the use of a mark of conformity.

This statement does not replace the conformity assessment procedure, to be carried out by the Manufacturer, referred to in Annex VIII of Directive 2014/34/EU.

Only full reproductions of this are allowed without written permission of IMQ.

[20] **Variations**

Issue 0