

FILA-N-LED-2/21, FILA-N-Em-LED-2/21, MULTIFILA-N-LED-2/21

Technical conditions of lighting fixture installation

EN

04.03.2026/ rev.5
www.vyrtych.cz

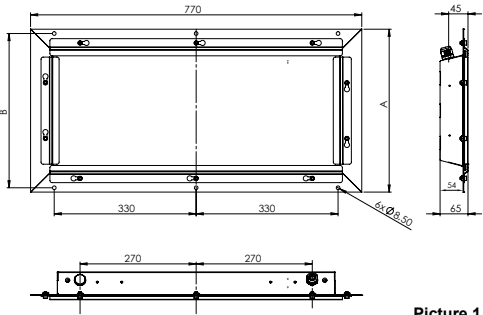
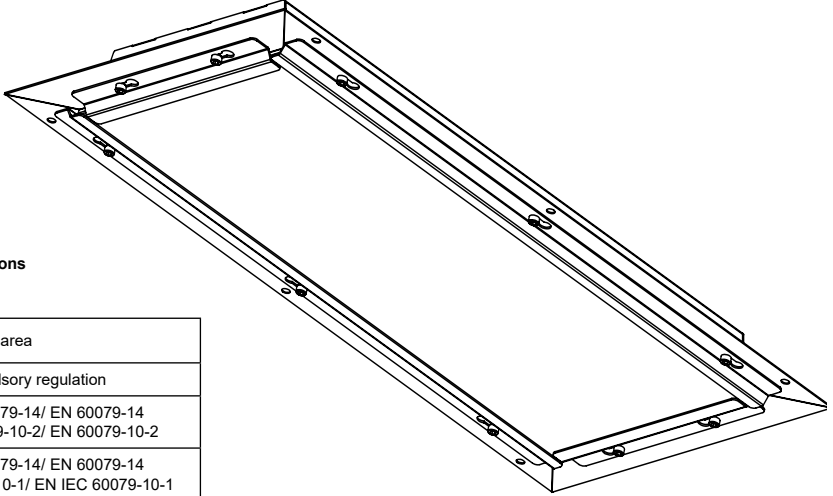
FTZÚ 20 ATEX 0075X

II 3G Ex nR IIC T6 Gc
II 2D Ex tb IIIC T70°C Db
IP66, class I, IK08

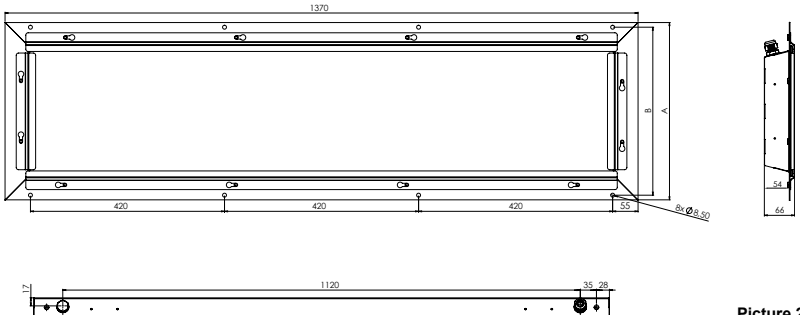
The explosion proof light fittings meet the standards according to the EU instructions
2014/34/EU and UK Statutory Instrument 2016 No.1107
They are used in areas with danger of explosion according to the following table:

Area with danger of explosive	Marking of exterior ambient	Classification of area	
		Marking	Compulsory regulation
Danger of explosion of flammable dusts	BE3N1	ZONE 21	ČSN EN 60079-14/ EN 60079-14 ČSN EN 60079-10-2/ EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 2	ČSN EN 60079-14/ EN 60079-14 ČSN EN 60079-10-1/ EN IEC 60079-10-1

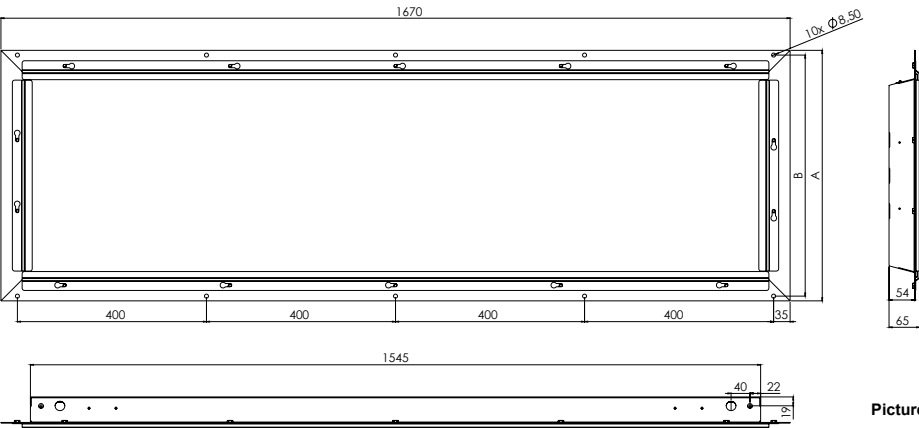
FILA-N-Em-LED-2/21 lighting fixtures are designed for non-maintained emergency mode
MULTIFILA-N-LED-2/21 lighting fixtures are designed for maintained emergency mode



Picture 1



Picture 2



Picture 3

Technical data:

Allowed range of operating temperatures for 220-240V, 50-60 Hz:

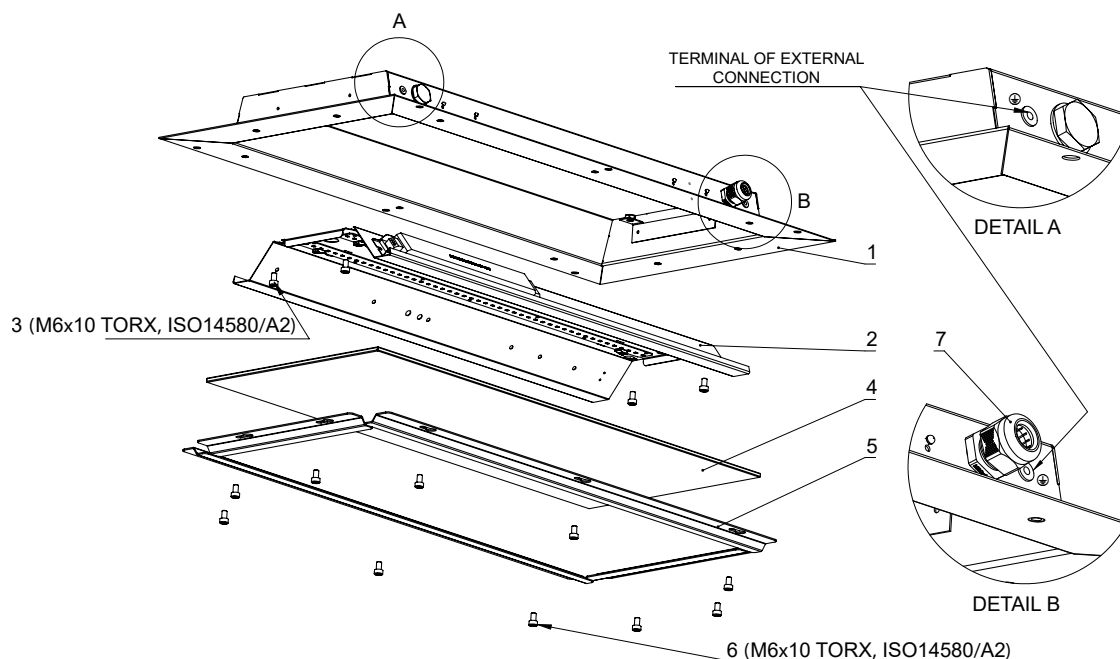
FILA-N-LED-2/21-5000-218-4K	-20°C - +65°C
FILA-N-LED-2/21-10000-236/418-4K	-20°C - +50°C
FILA-N-LED-2/21-29000-458-4K	-20°C - +40°C
FILA-N-LED-2/21-15000-258-4K, FILA-N-LED-18300-436-4K	-20°C - +45°C
MULTIFILA-N-LED-2/21-(458_258_218_418_236)-4K	0°C - +40°C
MULTIFILA-N-LED-2/21-10000-236-4K	0°C - +35°C

Nominal voltage and frequency:

Electronic ballast	
HELVAR:	220-240V, 0/50/60 Hz
TRIDONIC:	220-240V, 0/50/60 Hz
TCI:	110-240V; 50/60 Hz
TCI:	220-240V; 0 Hz
TRIDONIC emergency units:	220-240V, 50/60Hz

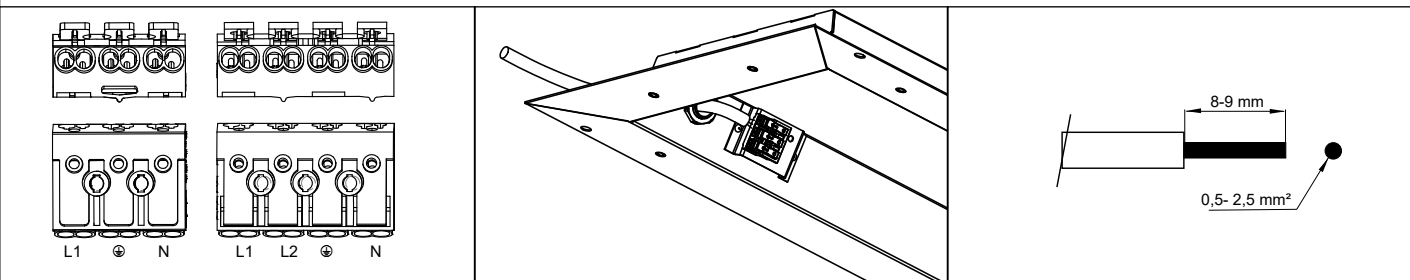
Dimension:

Type	Picture	A(mm)	B(mm)	Mounting hole dimension
FILA-N-LED-2/21-xxxx-218	1	380	360	720x335mm ±2mm
FILA-N-LED-2/21-xxxx-418	1	530	510	720x485mm ±2mm
FILA-N-LED-2/21-xxxx-236	2	380	360	1320x335mm ±2mm
FILA-N-LED-2/21-xxxx-436	2	530	510	1320x485mm ±2mm
FILA-N-LED-2/21-xxxx-258	3	380	360	1620x335mm ±2mm
FILA-N-LED-2/21-xxxx-458	3	530	510	1620x485mm ±2mm



Installation of lighting fixtures:

1. Loosen the screws on the frame (5), remove them and remove the glass (4).
2. Loosen the screws (3) holding the reflector (2) and, after disconnecting the connector terminal block strip, remove the reflector (2) from the housing (1).
3. Pull the feeding cable through the cable gland (7). Tighten the cable glands properly until the rubber sealing washer is partially deformed, tightening torque 2.5 Nm.
The outer dimension of the lighting fixture feeding cable must be within the range according to the cable gland type – Table of sealing elements, which is the necessary condition for proper function of the cable gland. It is not allowed to use breathing plugs and breathing cable glands in the lighting fixture.
4. Install the lighting fixture body (1) to the ceiling or wall using screws (not included in the package) or other suitable mechanical connection of the housing to the base (care must be taken to ensure that the support base is sufficiently strong). Mounting holes are listed on page 1 of this manual. The diameter of the hole is 8.5 mm.
5. Connect the feeding cable to the free part of feeding terminal block as follows:



The marking and connection of individual terminals may differ depending on the required luminaire equipment. In case of uncertainties contact the technical support of VYRTYCH a.s.

Terminal	FILA-N-LED-2/21	FILA-N-LED-Em-2/21	MULTIFILA-N-LED-2/21
L1	phase conductor	conductor of the switched phase	conductor of the switched phase
L2	-	-	conductor of the charging phase
N	neutral conductor	neutral conductor	neutral conductor
⊕	protective conductor	protective conductor	protective conductor

6. Connect the terminal block and insert the reflector (2) back into the lighting fixture. Then fix it with screws (3) - tightening torque 0.5 Nm.

7. Equip with the glass (4), frame (5) and tighten screws (6) properly - tightening torque 2.5 Nm.

The lighting fixture is equipped with a terminal for external interconnection.

If the lighting fixture is equipped with a driver with DALI function, connect the control signal to terminals D1 and D2.

Table of sealing elements:

Cable gland	Cable diameter for cable glands M20x1.5
OBO V-TEC Ex	Ø 7-12mm
CEAG CHG 960 92.. P...	Ø 5,5-13mm
WISKA ESKE/1 (S)(-L)(-+)(-RDE)	Ø 7-13mm
ELFIT UNI	Ø 7-12mm
BIMED LYRA (EURO-TOP)	Ø 7-12mm
Pflichtsch - 22052st13ex	Ø 9-13mm

Maximum allowed number luminaires for circuit breaker B10:

Maximal short circuit current must not be higher than 10kA

FILA-N-LED-2/21/ MULTIFILA-N-LED-2/21 FILA-N-Em-LED-2/21	Number of the luminaires
FILA-N-LED-xxxx-218	16
FILA-N-LED-xxxx-418	9
FILA-N-LED-xxxx-236	9
FILA-N-LED-xxxx-436	7
FILA-N-LED-xxxx-258	8
FILA-N-LED-xxxx-458	8

Emergency lighting fixture functionality test procedure:

To ensure the lighting fixture correct operation, it is necessary to follow the attached record of testing emergency lighting fixtures. Disconnect the lighting fixture from the mains. The LED modules in the emergency circuit must light up. The LED goes out.

If the emergency modules go out before the autonomy period has elapsed, even though the battery is fully charged, the battery must be replaced with a new one.

Notice: The battery reaches full capacity after approximately three charge/discharge cycles.



In case of any interventions on fixture lighting in premises with danger of explosion, the national safety rules and regulation for prevention of accidents are to be observed. FILA-N-LED is metal dustproof and waterproof lighting fixture for areas with danger of explosion.

The light source and gasket in this lighting fixture can be replaced only producer or its contractual service technique or a similarly qualified person. When installing lighting fixture, observe the ESD safety using appropriate tools! When the mounting instructions are not observed, the producer can't be responsible for incidental damages incurred.

The light source and gasket in this lighting fixture can be replaced only producer or its contractual service technique or a similarly qualified person. Any modification or replacement of components on the luminaire that affects the protection against dangerous explosions is prohibited. Repairs to luminaires may only be carried out by a suitably qualified person and only with original spare parts.



ATTENTION!!!

For wall installation of lighting fixture must be LED driver positioned facing downwards

WARNING – potential danger of electrostatic charging.

WARNING – the lighting fixture must be installed in the position, which does not allow the touch of persons and parts of the fixture.

WARNING – the lighting for fixed installation.

WARNING – the fixture should be cleaned with damp duster only. It is necessary to keep periodic cleaning intervals of lighting fixture

WARNING – do not open under voltage.

WARNING – replace protective cover

WARNING : The battery in the fixture can be changed for the same type or the same parameters only !!!

Producer included in recycling system provided by EKO-KOM Company (EK-F06070058).



Battery change:

Battery change is necessary when the fixture doesn't observe the conditions of rated operation period durability. In explosive area it is prohibited to disconnect battery for emergency unit. It is allowed to disconnect the fixture from supply voltage and take remove reflector from the fixture.

1. Disconnect the fixture from supply voltage.
2. Unbolt locking screws on and remove it.
3. Unbolt the screws which hold the reflector, disconnect the connector and remove the reflector from luminaire.
4. Disconnect supply cable from terminal block.
5. Disconnect battery from emergency unit in non-explosive area as follows „-“ black conductor and „+“ red conductor.
6. Remove the old battery.
7. Insert the new battery (mark the date of operation start).
8. Connect conductors to battery as follows „+“ red conductor and „-“ black conductor.
9. Connect the connector, insert the reflector back into luminaire. Then tight the screws with torque. (with torque 0,5Nm).
10. Insert the glass and back into luminaire and tight the screws (with torque 2,5Nm).
11. Connect luminaire to power.

Basic instruction:

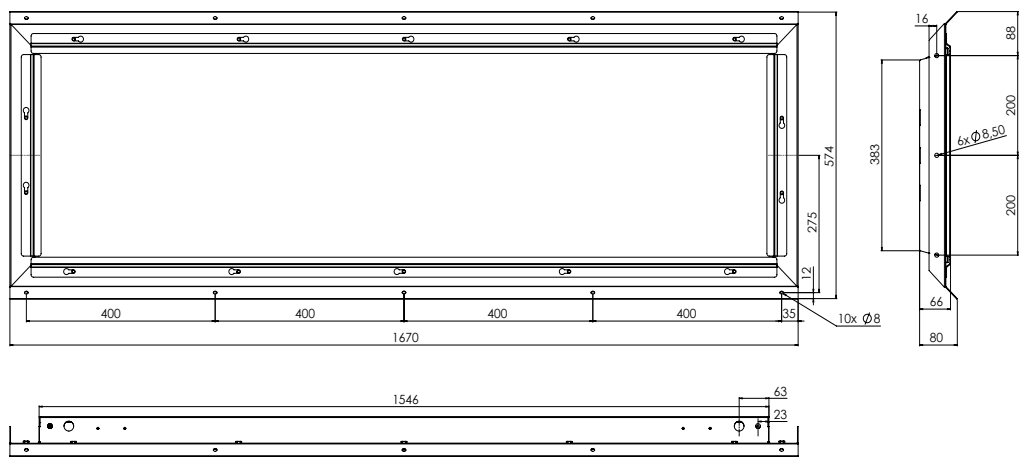
For users of luminaires

For users of emergency luminaires

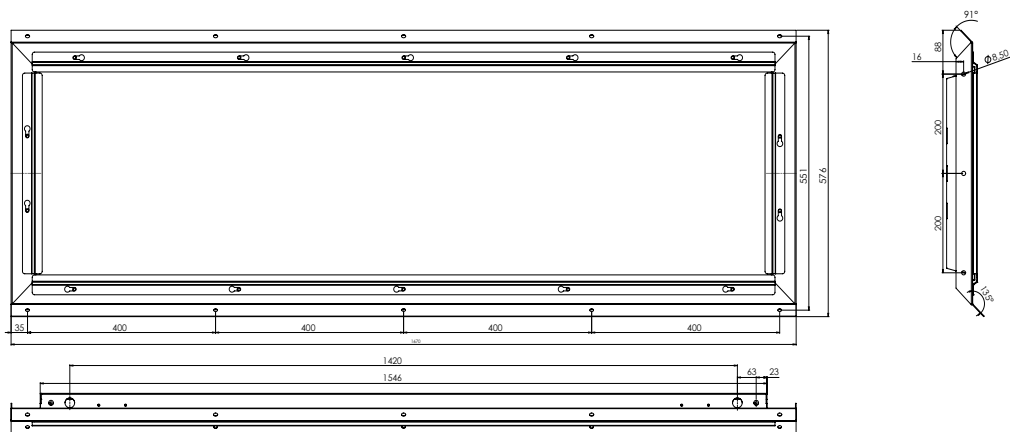
For DALI system users

i After clicking on the QR code, you will be redirected to the relevant website.

FILA-N-LED-CORNER-458



FILA-N-LED-DIAGONAL-458



FILA-N-LED-SURFACE-458

