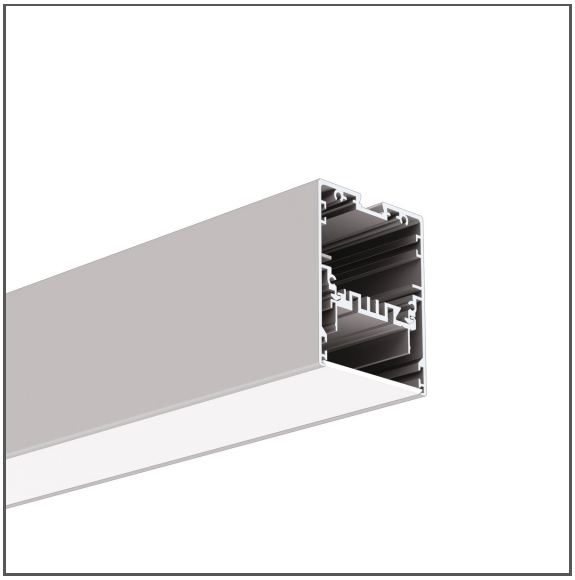
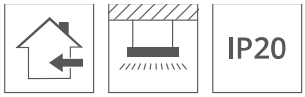
System MOD-50

Ref. 18047





- Wall-to-wall mounting possible
- Glare rating UGR < 19 possible
- Up/down lighting
- Space for power supply and electronic components
- Easy maintenance

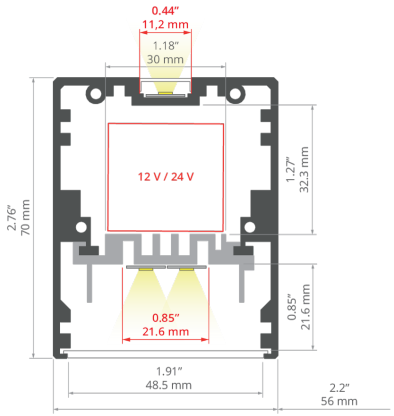
APPLICATION

- main and decorative lighting

MONTAGE

- suspended, using dedicated accessories
- can be easily connected into runs

TECHNICAL DRAWING



TECHNICAL SPECIFICATIONS

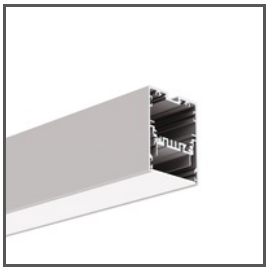
IP protection rating	20

SAMPLE PROJECTS

System MOD-50

Ref. 18047

RELATED SYSTEMS



MOD-50
18047

System MOD-50
Ref. 18047

COVERS

NAME		MATERIAL	MATERIAL TRANSMITTANCE	COLOR	REF.
KA		PC	63	frosted	17035
			91	clear	17036
HS		PC	73	frosted	1369
			94	clear	1370
KA-PRO		PC	67	frosted	17064
			94	clear	17065
KA-COM		PVC	70	frosted	17121
			93	clear	17122
LIGER		PC	70	frosted	17037
			17037OP		
32	black	17040			
POL-50		PC	73	frosted	17058
JUN-50		PMMA	92	clear	17056
PRS-50		PC	85	clear	17169
17169OP					

END CAPS

NAME		MATERIAL	COLOR	REF.
MOD-50		ABS	gray	24329
			white	24406
			black	24405

LED

K-0530-HD-24V
K-0530-HD-24V

K-HE-0480-HD-24V
K-HE-0480-HD-24V

K-HE-0960-HD-24V
K-HE-0960-HD-24V

K-HE-1440-HD-24V
K-HE-1440-HD-24V

K-HE-1920-HD-24V
K-HE-1920-HD-24V

OTHER ACCESSORIES

FASTENER
M4-12
42246

HEAD
ZO
42217

CONNECTOR
ZM-PION-135
42719

CONNECTOR
ZM-135
42720

CONNECTOR
ZM-PION-90
42718

CONNECTOR
ZM-90
42716

CONNECTOR
ZM-120
42728

CONNECTOR
ZM-45-G
42338

CONNECTOR
ZM-60-G
42304

CONNECTOR
ZM-90-G
42306

CONNECTOR
ZM-120-G
42308

CONNECTOR
ZM-135-G
42310

CONNECTOR
ZM-PION-45
42314

CONNECTOR
ZM-PION-120
42320

CONNECTOR
ZM-PION-60
42316

System MOD-50

Ref. 18047

FASTENER SET

RG-1

42647NI, 42647GSS, 42647L9010, 42647L9005

GLAND

M8x1

42265

REFLECTOR

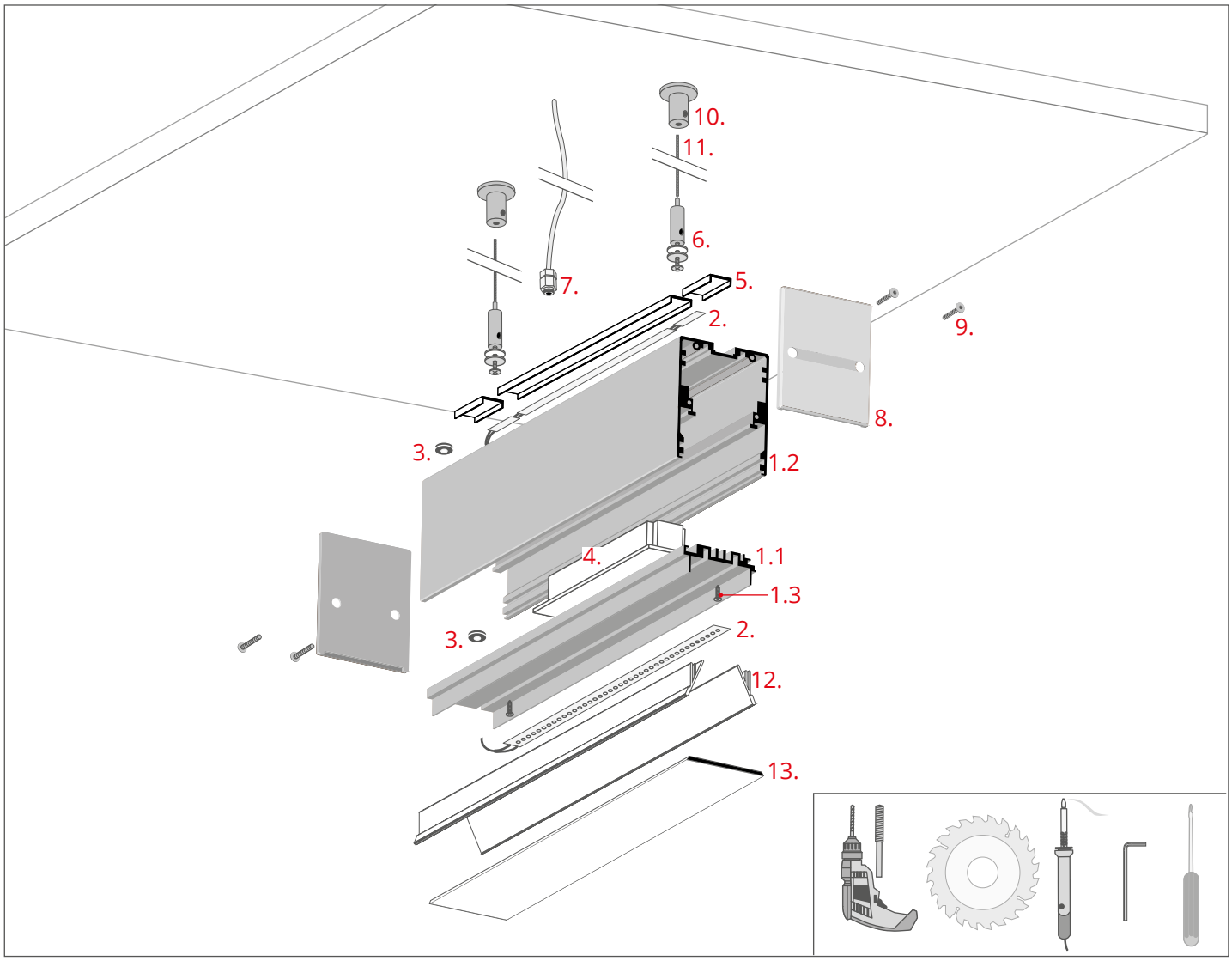
REFLEX 16-60

17003

SCREW

2.9X6.5 DIN7981F

70283



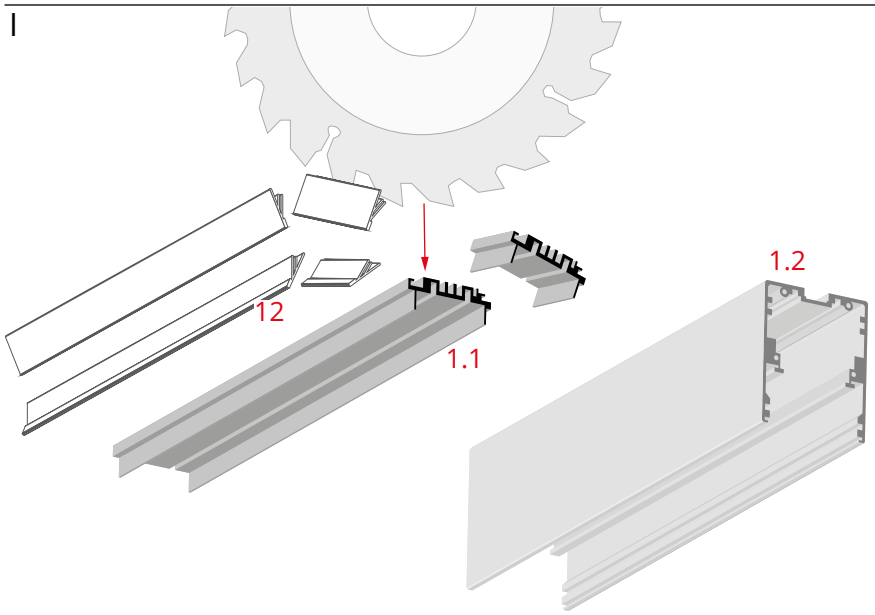
1.1 MOD-50 profile (item 1.1)
1.2 MOD-50 profile (item 1.2)
1.3 Locking bolt
} 18047
2. LED Tape*
3. Gland*
4. Power supply (12 V / 24 V)*
5. Cover*
6. Fastener*
7. Metal gland*
8. End cap*
9. Bolt
10. Ceiling fastener*
11. Steel wire*
12. Reflector*
13. Cover*

*The full range of accessories and electronics is available at www.KlusDesign.eu

NOTE! All LED tapes must be connected to a 12 V or 24 V power supply.

IMPORTANT: Not all possible mounting procedures are presented here.
More mounting procedures and related accessories can be found at www.KlusDesign.eu.
Drawings of extrusions and accessories in these instructions are simplified and only approximate the actual shapes.

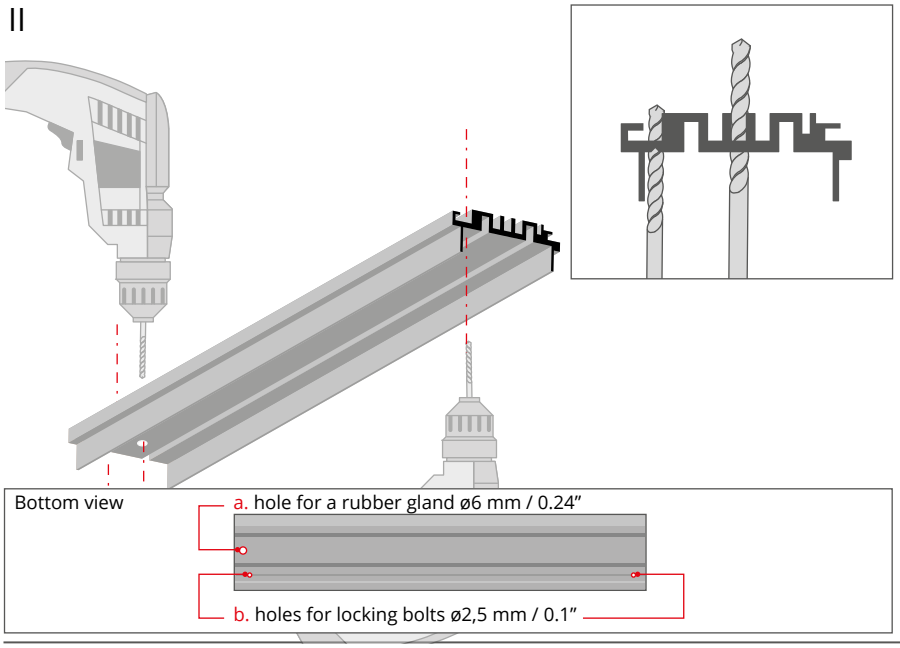
I



Shorten the extrusion item (1.1) by 12 mm / 0.47” relative to item (1.2).

Shorten the reflectors (12) by 12mm / 0.47” (to make them as long as the extrusion item 1.1)

II

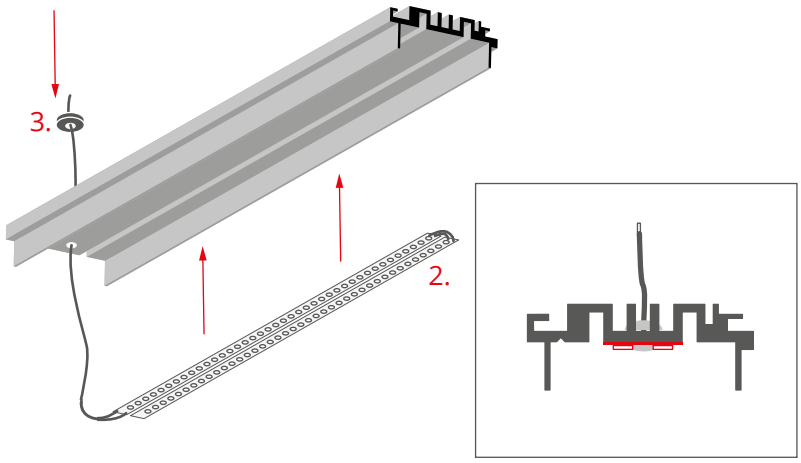


a. Drill holes for locking bolts in the profiled auxiliary line. The required number of holes is:

2 / 1m of the profile
4 / 2m of the profile
6 / 3m of the profile

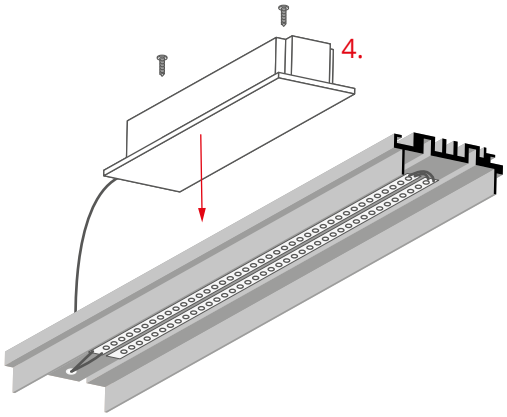
b. Drill a hole for the gland.

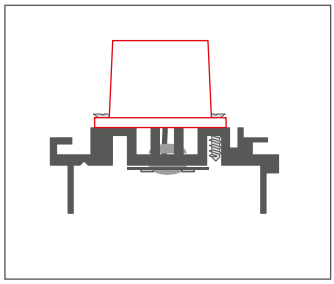
III



Install the LED tapes (2), insert the gland (3) and feed the power cable through it.

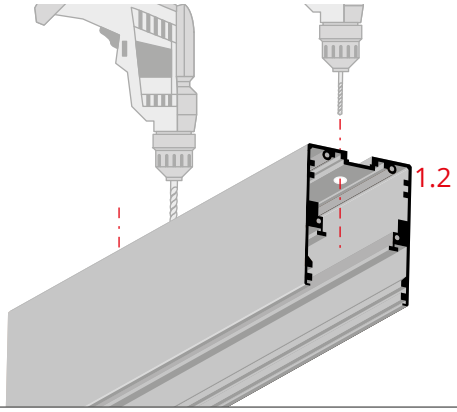
IV

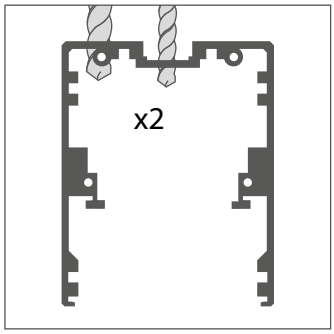


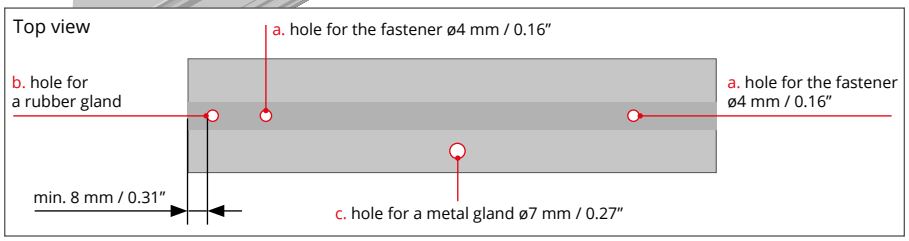


Mount the power supply (4) on the back of the extrusion.

V





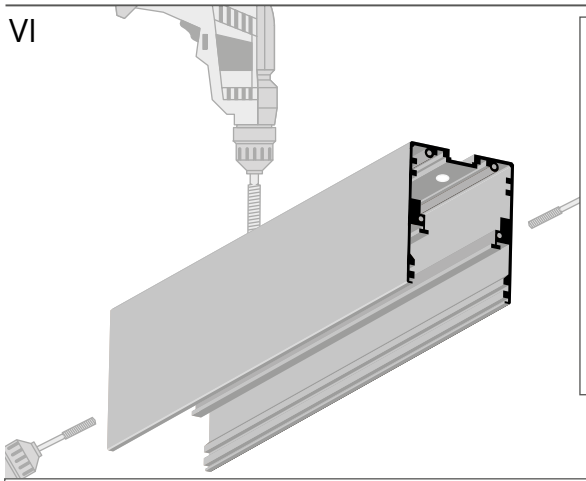


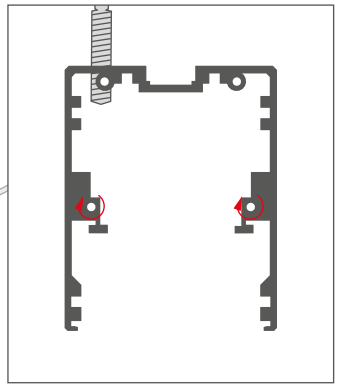
a. Drill two holes for the fasteners in the channel on the back of the extrusion (1.2). They do not have to be in a specific location.

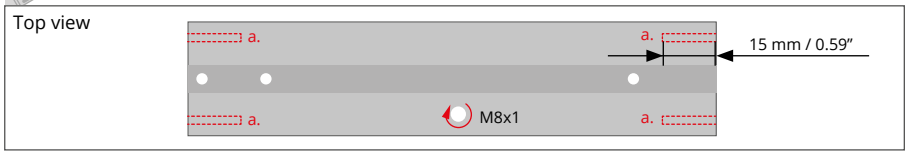
b. In the channel on the back of the extrusion drill a hole for the gland. minimal distance between the hole and the edge of the extrusion is 8 mm / 0.31”.

c. Drill a hole for the gland near the channel, where you will run the power cable from the ceiling.

VI



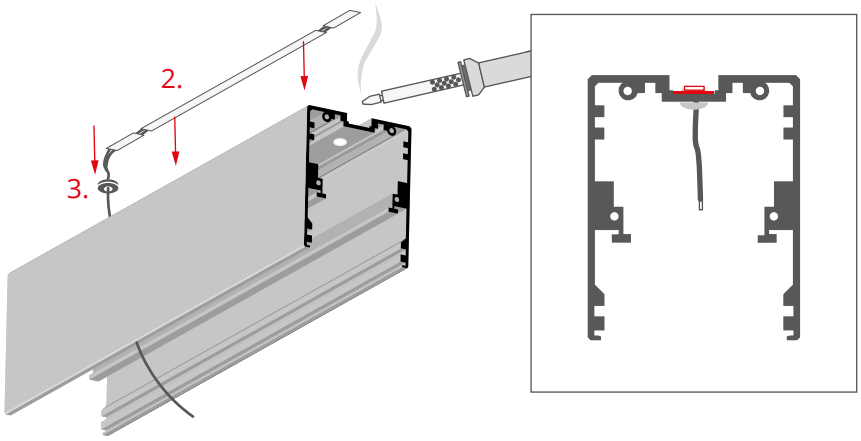


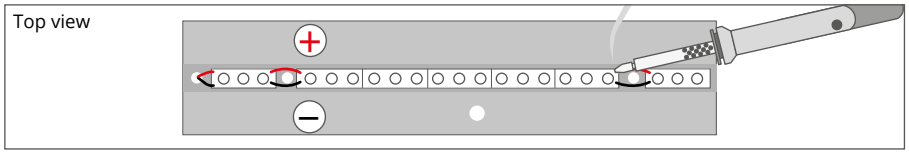


a. On both sides, from the side of the profile cross-section, thread the sockets for end cap bolts to a depth of approx. 15 mm / 0.59”. (M3 tap)

b. Thread the hole for the metal gland (M8x1 tap).

VII



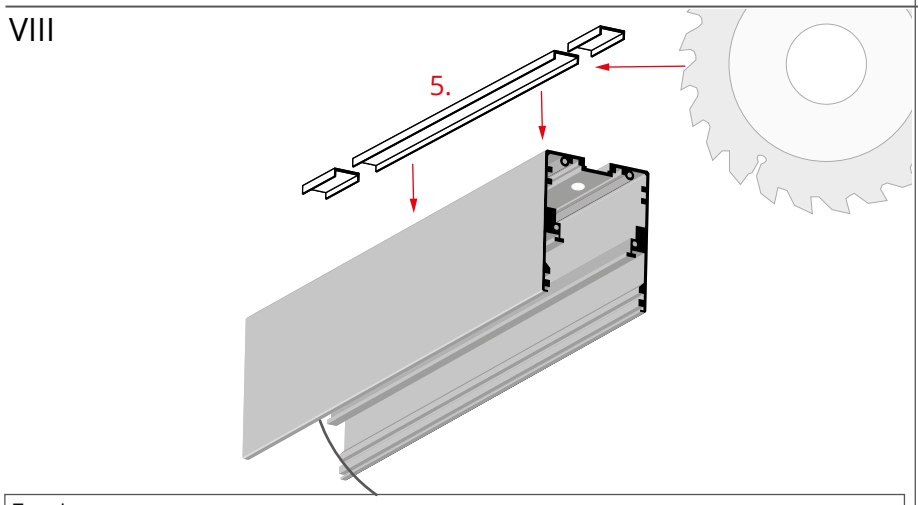


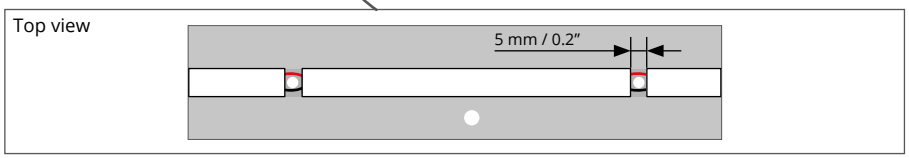
Install the LED tape (2).

Then connect the poles of the tape using a soldering iron and short wires.

Mount the gland (3) and feed the power cable through it.

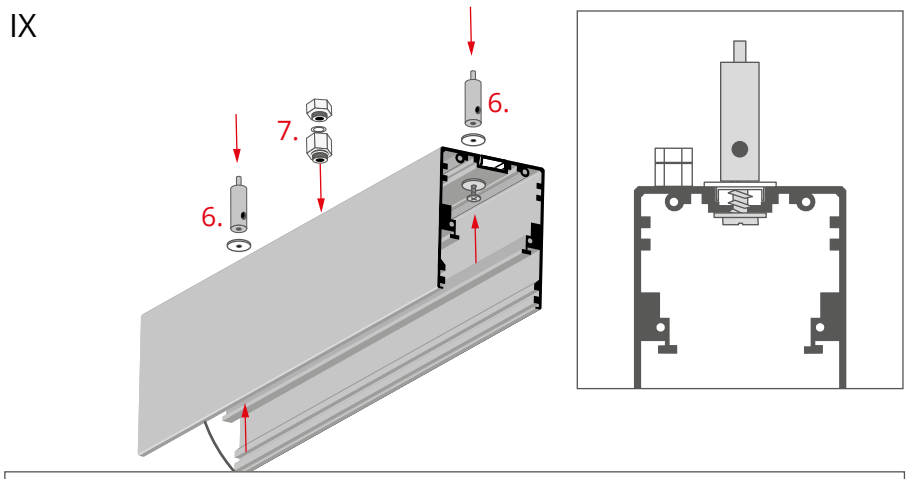
VIII

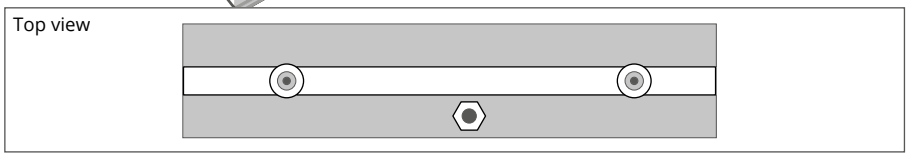




Attach the cover (5) between the holes for the fasteners leaving 5 mm space between the cover sections.

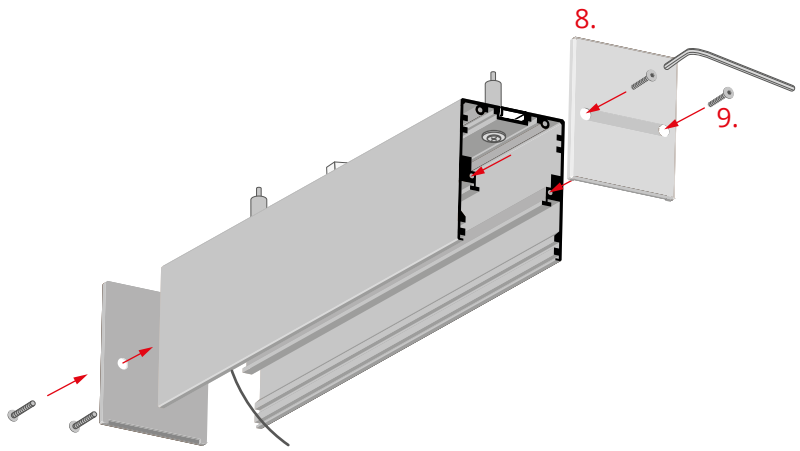
IX





Attach the fasteners (6) and mount the metal gland (7).

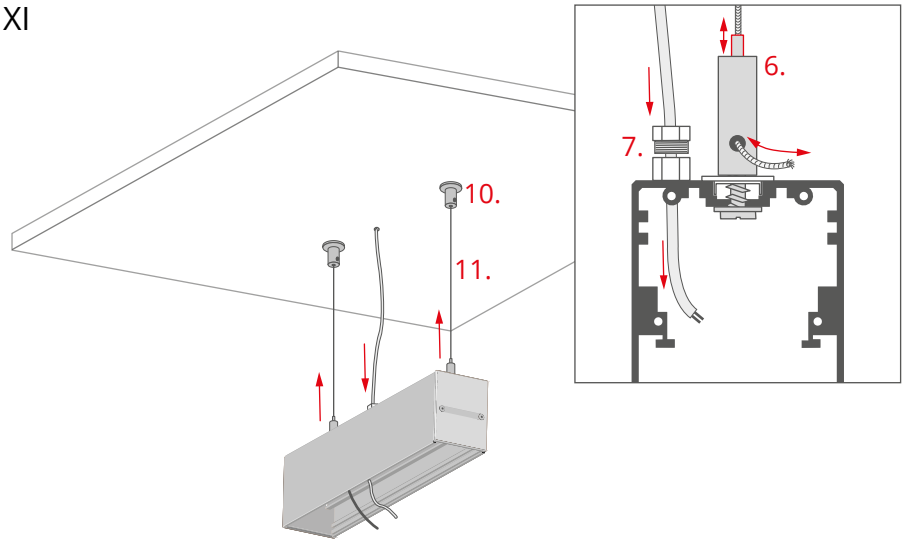
X



Mount end caps (8) and secure them with bolts (9).

NOTE! The end caps can also be mounted at stage XIV.

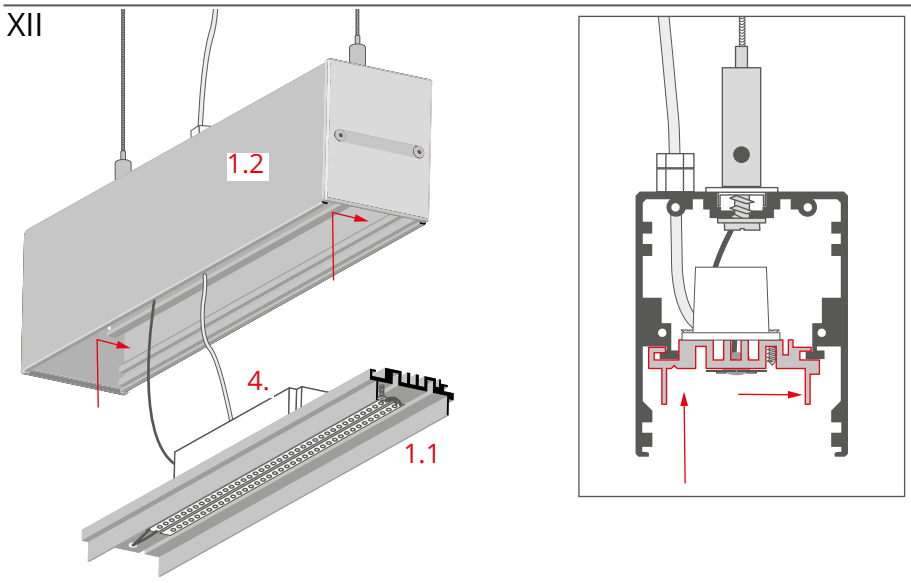
XI



Fasten the extrusion on steel wires (11) to the ceiling fasteners (10). The suspension length can be adjusted by pressing the upper part in the fastener body (6).

Feed the main power cable through the metal gland (7) and tighten the top nut.

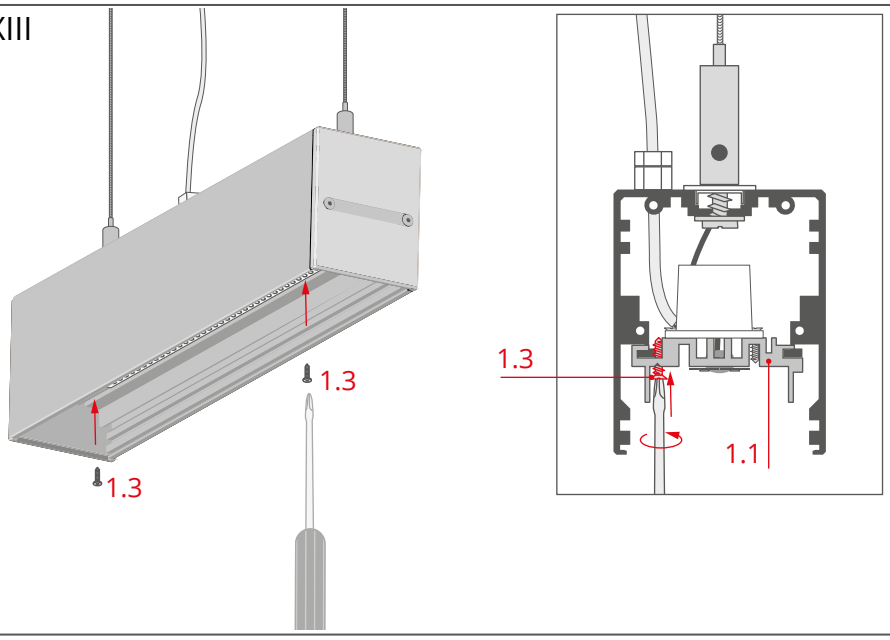
XII



Connect the power supply (4) to the power cable.

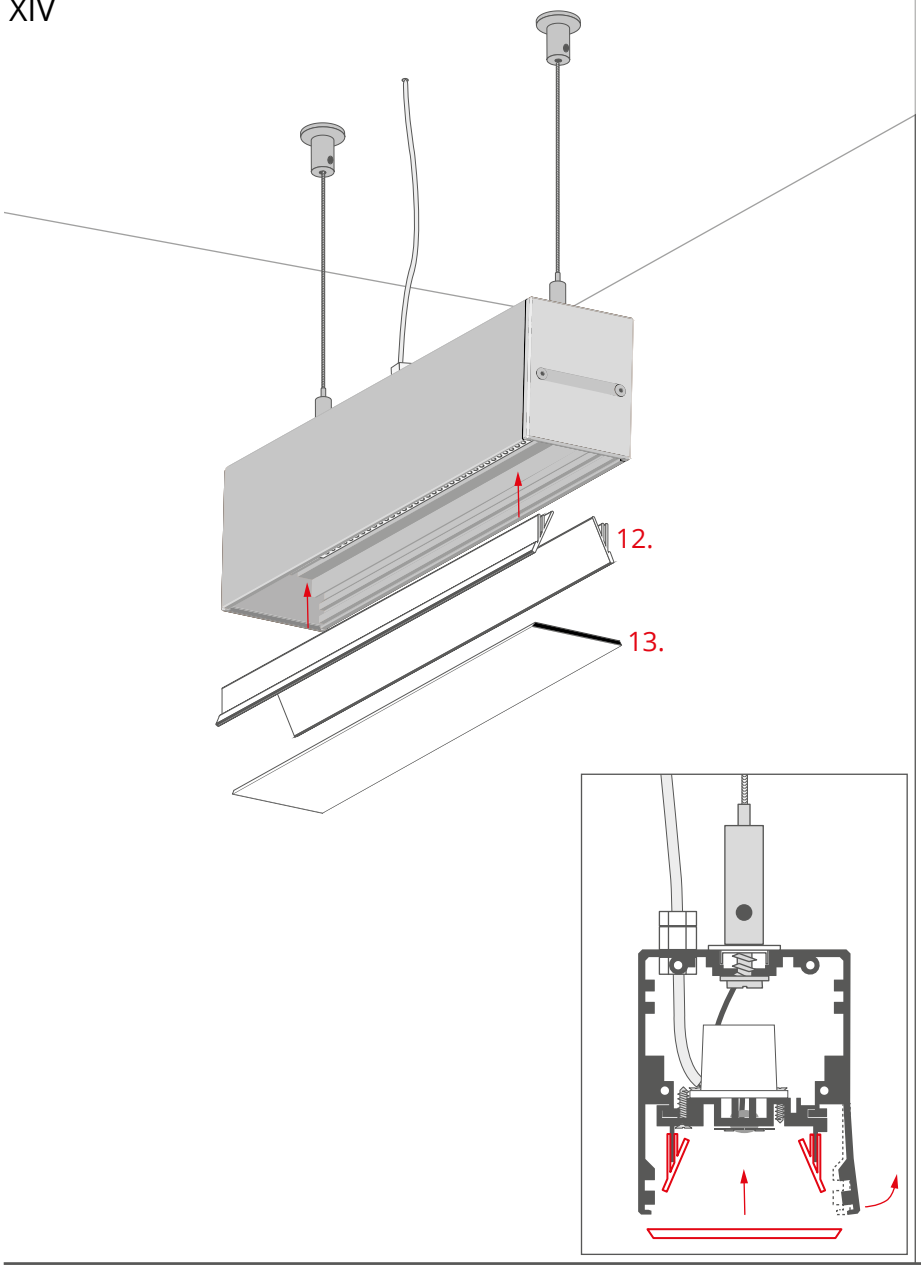
Connect both extrusion items (1.1, 1.2) by inserting and moving item (1.1) as shown in the figure.

XIII



Secure the extrusion item (1.1) against slipping out by screwing the locking bolts (1.3) into the pre-drilled holes.

XIV



Mount the reflectors (12).

Mount the bottom cover by slightly bending one wall of the extrusion (13).

The cover needs to be the same legth as the extrusion.

Declaration of Conformity
NR 214/22

KLUŚ Sp. z o.o., ul. Słoneczna 126, 05-506 Kolonia Lesznowola hereby declares that the product:

MOD-50

version without an integrated power supply

with the following parameters 12V DC, 24V DC, LED, IP20, class III
is compliant with the provisions of the following EU directive (directives) (including all changes and amendments thereto)

Directive EMC 2014/30/UE
Directive RoHS (UE) 2015/863
Directive EuP 2009/125/WE
Directive 2011/65/UE
Directive 2014/35/UE

and that the following harmonized standards and/or technical documentation were applied:

PN-EN 60598-1:2015-04
Luminaires - Part 1: General requirements and tests

PN-EN 60598-2-1:2021-09
Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires

PN-EN IEC 55015:2019/A11:2020
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

PN-EN 61547:2009
Equipment for general lighting purposes. EMC immunity requirements.

PN-EN IEC 61000-3-2:2019/A1:2021
Electromagnetic compatibility (EMC). Part 3-2: Limits. Limits for harmonic current emissions (equipment input current < or = 16 A per phase).

PN-EN 61000-3-3:2013/A1:2019
Electromagnetic compatibility (EMC). Part 3-3: Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current < or =16 A per phase and not subject to conditional connection.

PN-EN IEC 63000:2019
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

KLUŚ Sp. z o.o.
ul. Słoneczna 126, Kolonia Lesznowola 05-506
tel. (+48) 22 757 40 51
NIP: 123 147 44 54, REGON: 386894722
BDO: 000011460 (2)

Kolonia Lesznowola , 15/09/2022

PREZES ZARZĄDU
Sylwester Kluś

last name, first name and position of the person authorized to sign documents on behalf of the manufacturer