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LED LINEAR™

A Fagerhult Group Company

ULTIMA-S | MAGNET ORDERCODE MAG

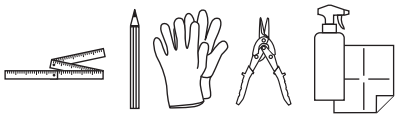
MONTAGEANLEITUNG
INSTALLATION INSTRUCTIONS

EINBAU MIT STAHLBAND | RECESSED WITH STEEL STRIP

Erforderliches Werkzeug
Required tools

Erforderliches Zubehör
Required accessories

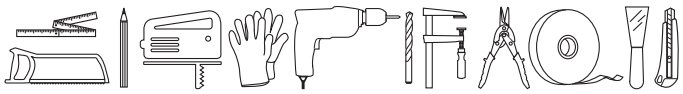
ANBAU MIT STAHLBAND | SURFACE MOUNTED WITH STEEL STRIP



Erforderliches Werkzeug
Required tools

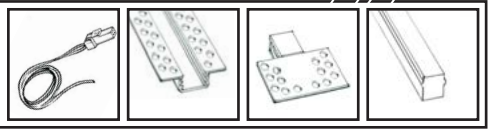
Erforderliches Zubehör
Required accessories

EINBAURAHMEN PUTZ | RECESSED TRIMLESS FOR PLASTERING

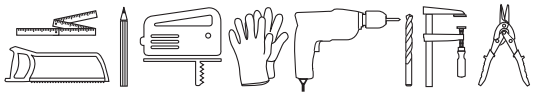


Erforderliches Werkzeug
Required tools

Erforderliches Zubehör
Required accessories

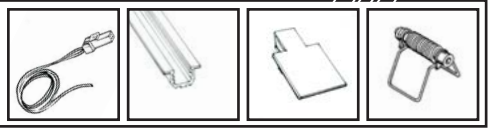


EINBAU MIT RAHMEN | RECESSED WITH TRIM



Erforderliches Werkzeug
Required tools

Erforderliches Zubehör
Required accessories



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Achtung: LEDs nicht berühren.
Bruchempfindlich! Elektrostatische Entladungen können die LEDs beschädigen.
Attention: Do not touch LEDs. Fragile!
Electrostatic discharges can damage the LEDs.

www.led-linear.com/products/ultima-s

Printed on VIVUS 89 Recycling

MADE IN GERMANY

Art. # 33100078

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ULTIMA-S | MAGNET

MONTAGEANLEITUNG
INSTALLATION INSTRUCTIONS

Allgemeine Sicherheitshinweise

- Lesen Sie die Anleitung vor Montage und Inbetriebnahme.
- Übergeben Sie die Anleitung dem Kunden zur Aufbewahrung.
- Entfernen Sie nicht das Typenschild der Leuchte.
- Beachten Sie die nationalen Installations- und Unfallverhütungsvorschriften bei der Montage.
- Die Installation sowie der Austausch von Leuchtmitteln und Leitungen darf nur von einer geschulten elektrotechnischen Fachkraft, dem Hersteller oder einem vom Hersteller beauftragten Servicetechniker durchgeführt werden.
- Bei unsachgemäßer Montage oder nachträglicher Änderung an der Leuchte wird keine Haftung übernommen.
- Reinigen Sie die Leuchte regelmäßig mit einem angefeuchteten weichen Tuch. Benutzen Sie nur lösungsmittelfreie Reinigungsmittel. Achtung: Vorher Netzversorgung trennen und System abkühlen lassen.
- Zum Schutz der Oberflächen vor Schmutz und Fingerabdrücken empfehlen wir das Tragen von Schutzhandschuhen während der Montage.
- Die Entsorgung des Systems muss über die Entsorgung von Elektronikprodukten erfolgen gemäß der EU-Richtlinie-WEEE (Waste Electronical and Electronic Equipment).
- Zur Beantwortung von technischen Rückfragen steht Ihnen unser Kundendienst bzw. unsere weltweiten Niederlassungen und Distributoren zur Verfügung. Bitte richten Sie Ihre Anfrage an info@led-linear.com.

Anschluss

- Überprüfen Sie die Spannungsfreiheit des Systems vor Montage und Wartung. Achtung Stromschlaggefahr!
- Setzen Sie nur für die Produkte qualifizierte Dimmer und Konverter mit geeigneter Netzspannung ein. Nicht geeignete Komponenten können das Gesamtsystem beschädigen. Geeignete Produkte finden Sie in unserem Sortiment.
- Zum Anschluss der Leuchte an das Versorgungsnetz sind Anschlussklemmen in Übereinstimmung mit EN 60998-2-1 oder EN 60998-2-2 zu verwenden.
- Falsch angeschlossene Leitungen können zu einer Beschädigung der Leuchte führen.
- Verbinden und Trennen der Leuchte und des Betriebsgeräts unter anliegender Netzspannung kann zu Beschädigungen der Komponenten führen.
- Der Betrieb der Leuchte mit veränderten oder beschädigten Anschlussleitungen ist nicht zulässig.
- Stromgetriebene (Constant Current) LED-Module dürfen sekundärseitig nicht geschaltet werden.
- Schützen Sie die elektronischen Betriebsgeräte vor Überspannung.

Umgebung

- Achten Sie auf die bestimmungsgemäßen Umgebungsbedingungen, unter denen die Leuchte laut definierten Temperaturen (Ta/Tc max.) und IP-Klassifizierung betrieben werden darf.
- Achten Sie bei Deckenbefestigung der Leuchte auf die zulässigen Deckenlasten.

General Safety Instructions

- Read the instructions for installation and commissioning.
- Pass the instructions to the customer for safekeeping.
- Do not remove the type plate of the luminaire.
- The installation as well as the replacement of light source and cables may only be performed by a trained electrotechnical specialist, the manufacturer or a service technician authorized by the manufacturer.
- Please note the national installation and accident prevention regulations during installation.
- For improper installation or any subsequent change to the luminaire no liability is accepted.
- Clean the luminaire regularly with a smooth damp cloth. Only use solvent-free cleaning agents. Attention: previously cut off the mains supply and allow system to cool down.
- To protect the surface from dirt and fingerprints, we recommend the use of protective gloves during installation.
- The disposal of the system must be carried out on the disposal of electronic products in accordance with the EU Directive WEEE (Waste Electronical and Electronic Equipment).
- In order to answer technical queries, please contact our customer service respectively our worldwide branches and distributors. Please send your request to info@led-linear.com.

Connection

- Check that there is no voltage of the system prior to installation and maintenance. Beware of electric shock!
- Only suitable dimmers and converters of the correct voltage must be used. Not suitable components can damage the whole system. You will find suitable products in our range.
- Terminals in accordance with EN 60998-2-1 or EN 60998-2-2 must be used for connecting the lamp to the power grid.
- Incorrectly connected cables can cause damage to the luminaire.
- Connecting and disconnecting the luminaire and the control gear under present voltage can cause damage to the components.
- It is not allowed to use the luminaires with altered or damaged connector cables.
- Electrically operated (Constant Current) LED modules must not be secondary side connected.
- Protect the electronic operating devices from overvoltage.

Environment

- Pay attention to the allowable ambient conditions under which the luminaire may be operated according to defined temperatures (Ta/Tc max.) and IP classification.
- Pay attention to the permissible ceiling loads in case of ceiling mounting of the luminaire.

• Für die Einbau-Montage ist eine ULTIMA mit Magneten notwendig.
• Die Einbau-Montage führt zu einer maximal zulässigen Wattage von 20 W/m.
• Empfohlen wird maximal eine Leuchte pro Recessed-Profil.
• Empfohlen wird die Kabelvariante „M0" gegenüber der Variante „00".
• Maximale Leuchtenlänge für Einbau-Montage: 1950 mm.
• Falls Sie ULTIMA-S mit Magneten in einer geräuscharmen Umgebung dimmen wollen, empfehlen wir die Verwendung eines für ULTIMA optimierten Steuergeräts aus der Serie IN.finite (Artikelnummern enden auf -ULT).

• Recessed mounting requires an ULTIMA with magnets.
• Recessed mounting results in a maximum permissible wattage of 20 W/m.
• A maximum of one luminaire per recessed profile is recommended.
• The „M0" cable version is recommended over the „00" version.
• Maximum luminaire length for recessed mounting: 1950 mm.
• If you want to dim an ULTIMA-S with magnets that is mounted in low ambience noise surroundings, we recommend using a controller from the IN.finite range optimised for ULTIMA (article codes ending on -ULT).

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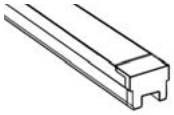
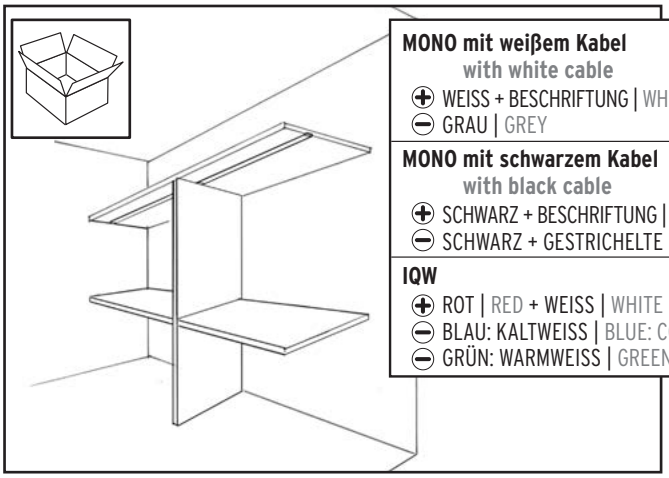
OPAL | 15° | 25° | 40° | 60° | BW | AS



EINBAU MIT STAHLBAND 1.1 – 1.12
RECESSED WITH STEEL STRIP



MONO mit weißem Kabel
with white cable
⊕ WEISS + BESCHRIFTUNG | WHITE + TEXT
⊖ GRAU | GREY

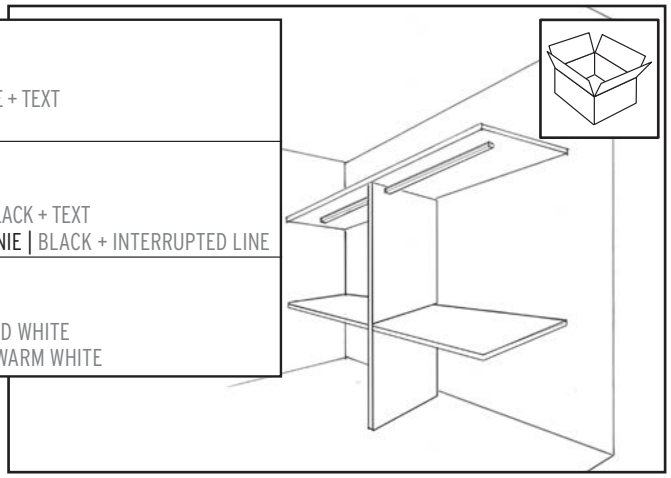
MONO mit schwarzem Kabel
with black cable
⊕ SCHWARZ + BESCHRIFTUNG | BLACK + TEXT
⊖ SCHWARZ + GESTRICHELTE LINIE | BLACK + INTERRUPTED LINE

IQW
⊕ ROT | RED + WEISS | WHITE
⊖ BLAU: KALTWEISS | BLUE: COLD WHITE
⊖ GRÜN: WARMWEISS | GREEN: WARM WHITE

Art. # 18100049

Breite 20 mm x 30 m
Width 0.79" x 98.4´

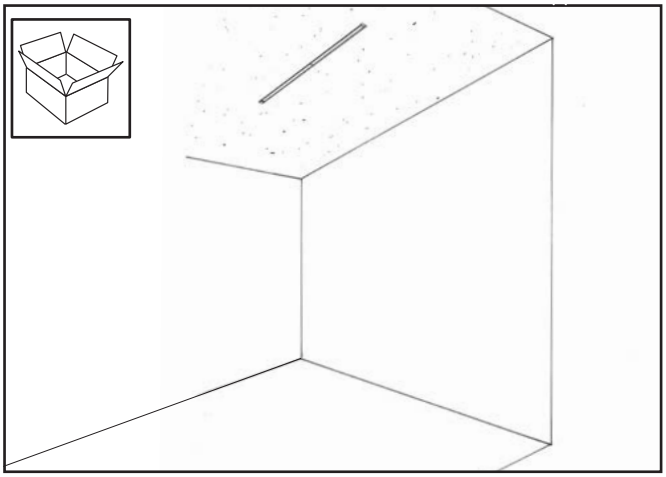
ANBAU MIT STAHLBAND 2.1–2.12
SURFACE MOUNTED WITH STEEL STRIP



Art. # 18100048

Breite 10 mm x 30 m
Width 0.39" x 98.4´

EINBAURAHMEN PUTZ 3.1 – 3.31
RECESSED TRIMLESS FOR PLASTERING



A

Kabel, statisch weiss, 2m
Cable static white, 2m
Art.# 15000142
ODER | OR
Kabel, (RGB) für IQW, 2m
Cable (RGB) for IQW, 2m
Art. # 15000202

B

Endkappen / Endcap
Set aus 2 Stk. / Set of 2
Weiß | White
Art. # 13000389-W

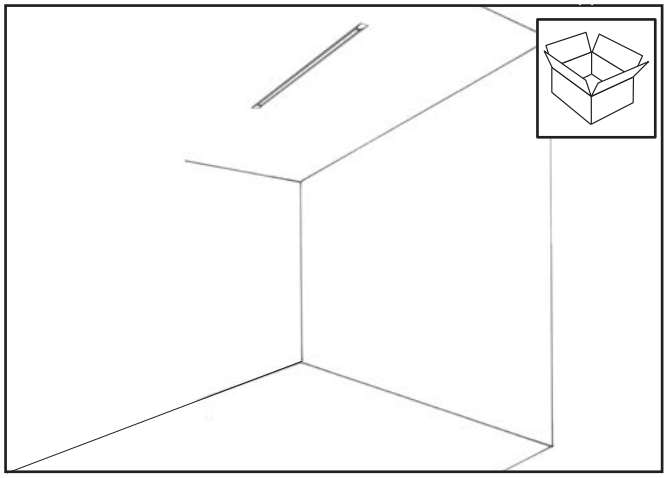
C

Einputzprofil
für Ultima-S MAG, weiss
Trimless mounting profile for Ultima-S
Art.# 10000625-W-2m

D

Plastering dummy 5m
Art. # 10000601

EINBAU MIT RAHMEN 4.1 – 4.26
RECESSED WITH TRIM



A

Kabel, statisch weiss, 2m
Cable static white, 2m
Art.# 15000142
ODER | OR
Kabel, (RGB) für IQW, 2m
Cable (RGB) for IQW, 2m
Art. # 15000202

E

Endkappen / Endcap
Set aus 2 Stk. / Set of 2
Schwarz | Black
Art. # 13000388-SCH
Weiß | White
Art. # 13000388-W

F

Einbauprofil mit Rahmen, weiss,
Recessed mounting profile with trim, white
Art.# 10000624-W-2m
Einbauprofil mit Rahmen, schwarz
Recessed mounting profile with trim, black
Art.# 10000624-SCH-2m

G

Mounting Spring
for Track
Recessed with Trim
(Set of 4)
Art. # 13000443

Mindestens eine Montagefeder pro 0,33 m Montageprofil
At least one mounting spring per 13" mounting profile

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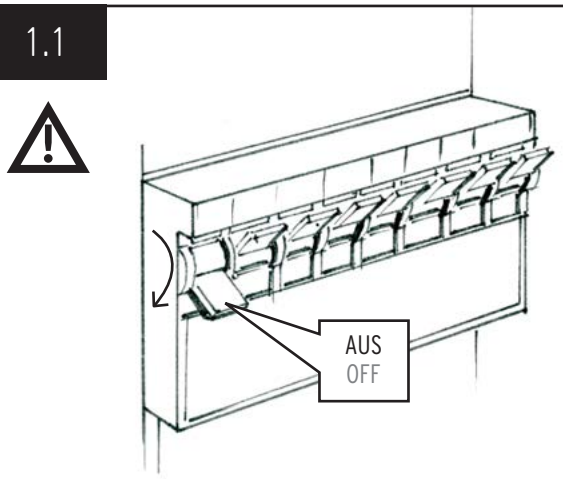
1.1



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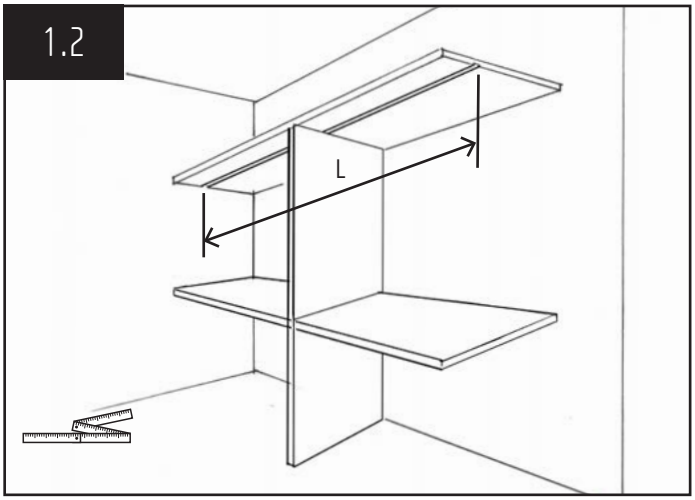

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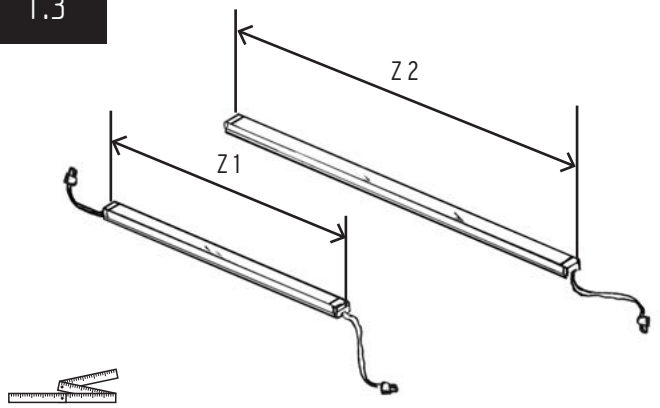

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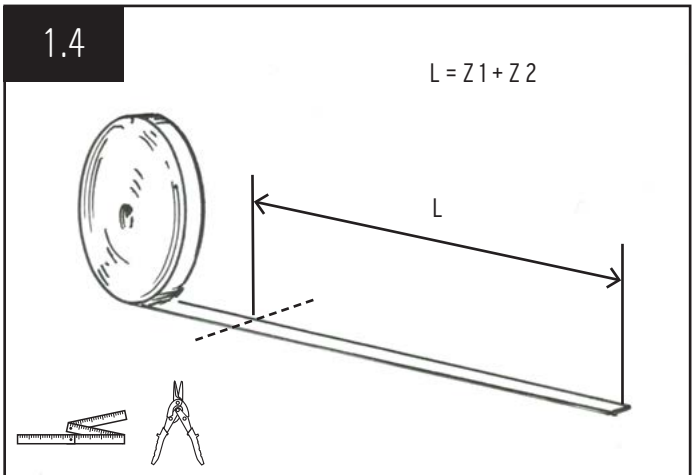
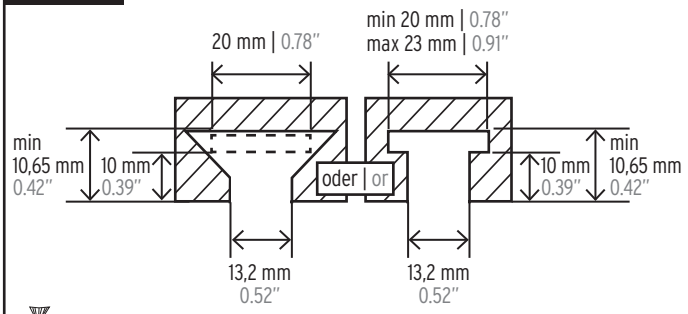


1.5

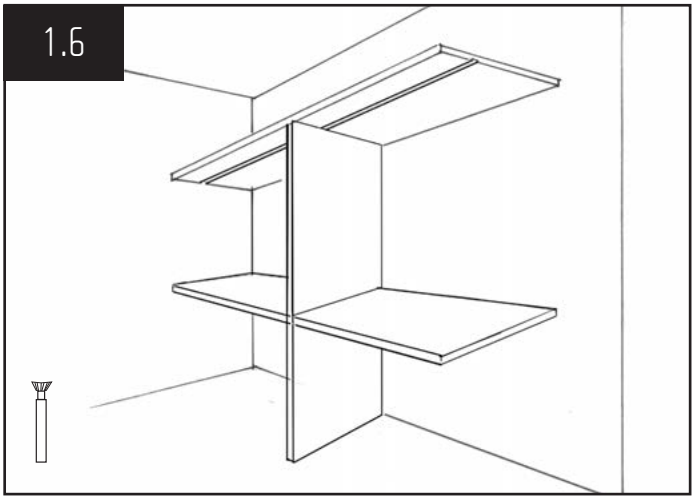
ABMASSE FÜR NUTEN | DIMENSIONS FOR GROOVES



Für alle Ausrichtungen
For all orientations

Nur für dargestellte Ausrichtung
Only for orientation shown

1.6



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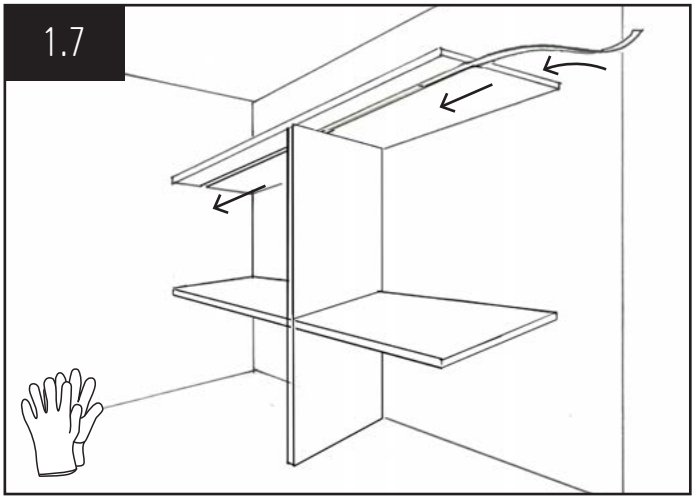

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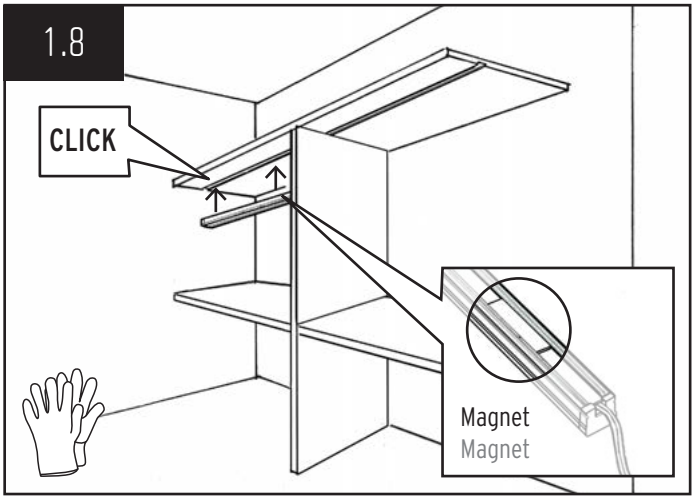

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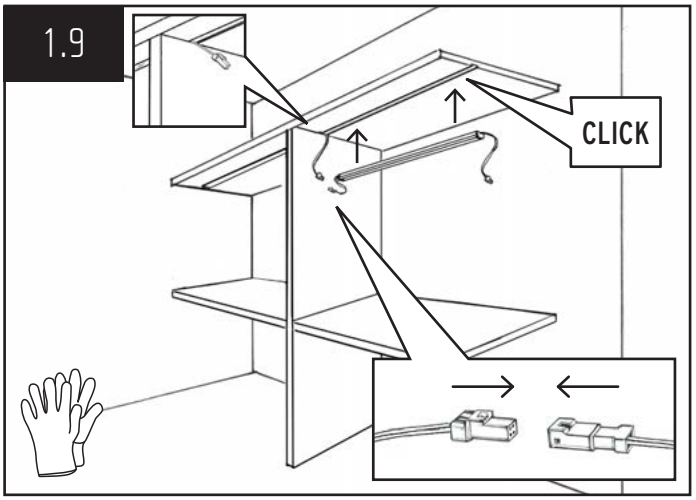
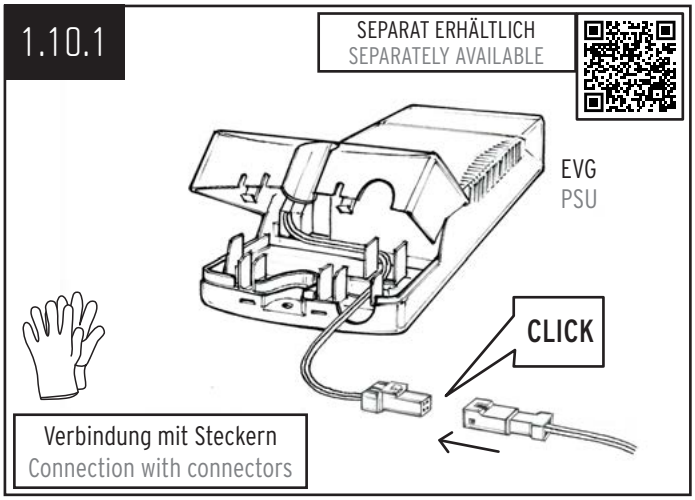


1.10.1

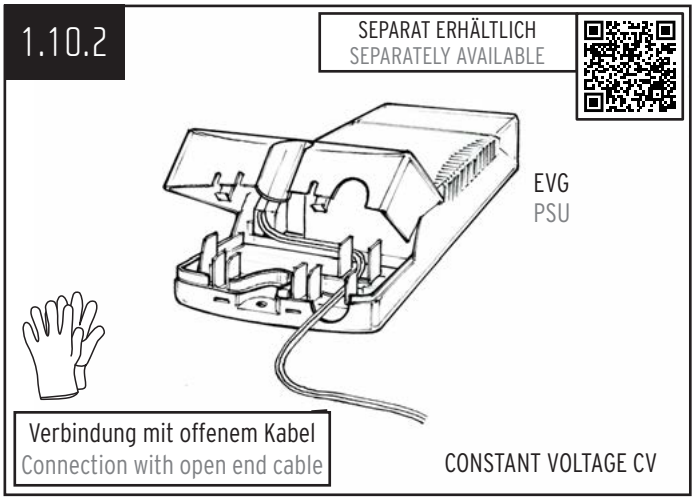
SEPARAT ERHÄLTLICH
SEPARATELY AVAILABLE



Verbindung mit Steckern
Connection with connectors

1.10.2

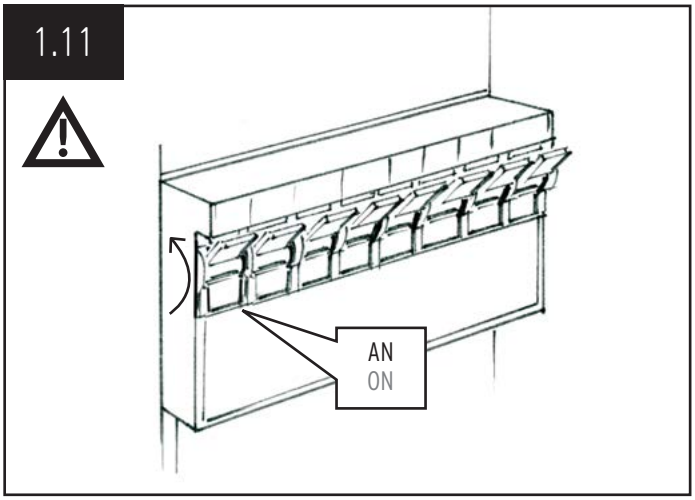
SEPARAT ERHÄLTLICH
SEPARATELY AVAILABLE



Verbindung mit offenem Kabel
Connection with open end cable

CONSTANT VOLTAGE CV

1.11



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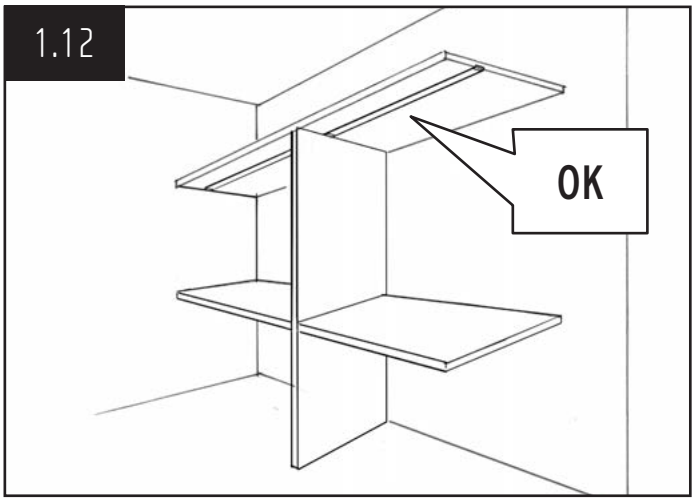

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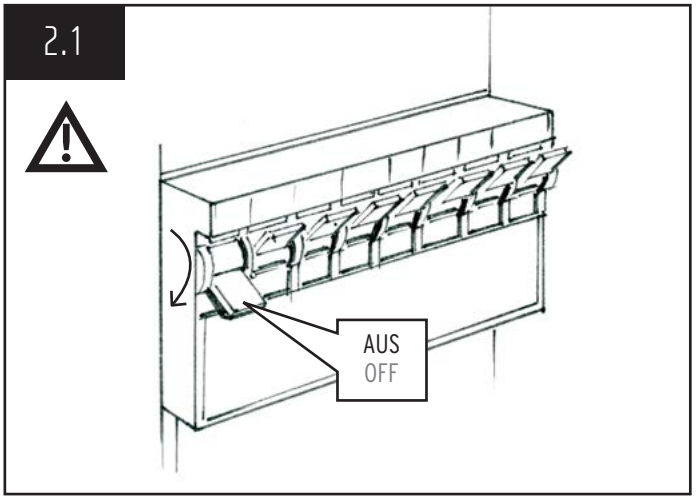

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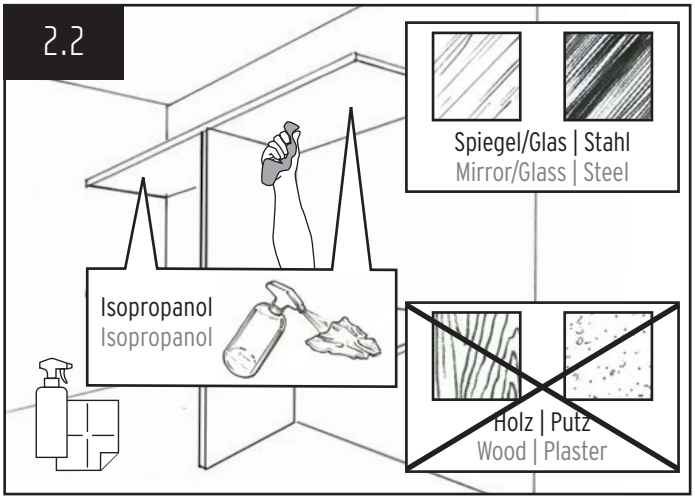

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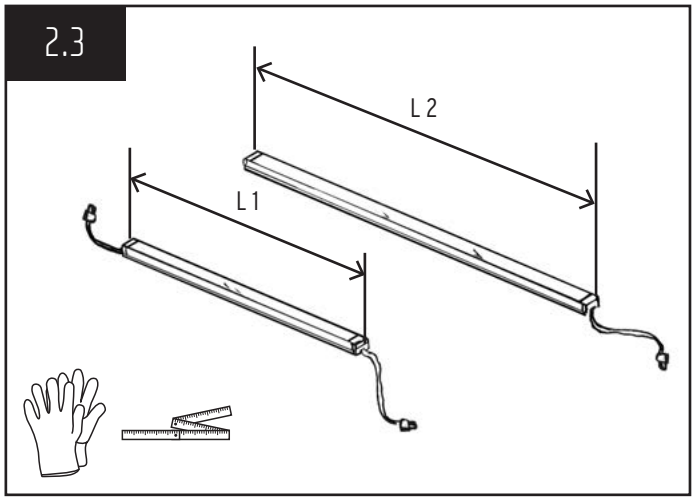

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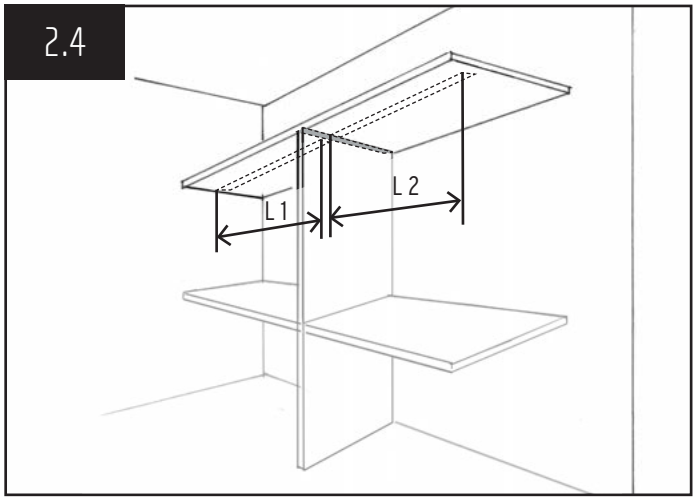

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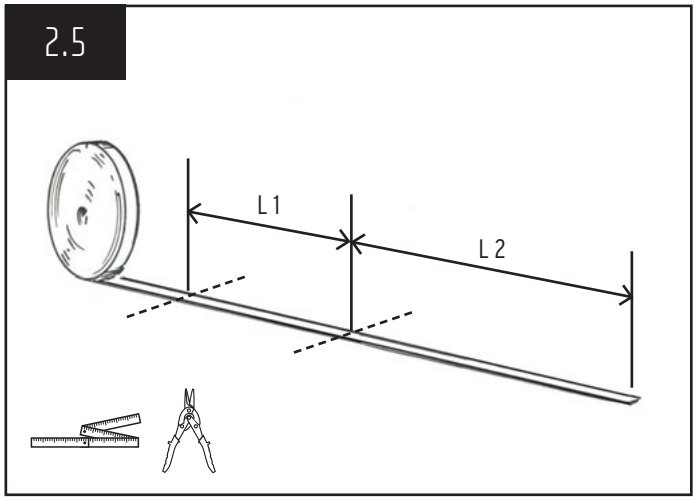

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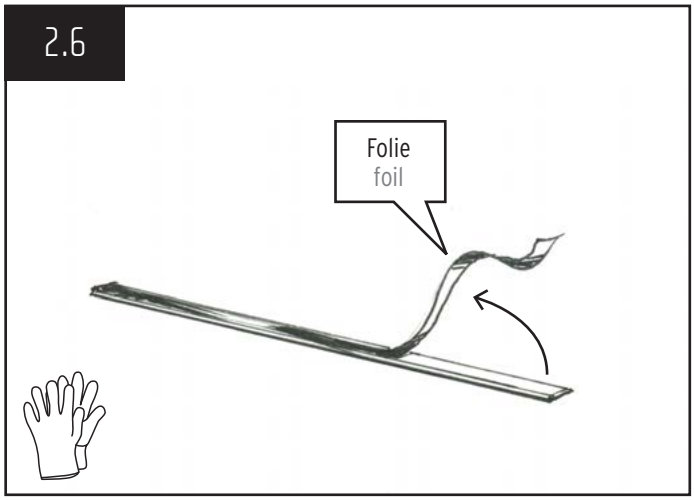

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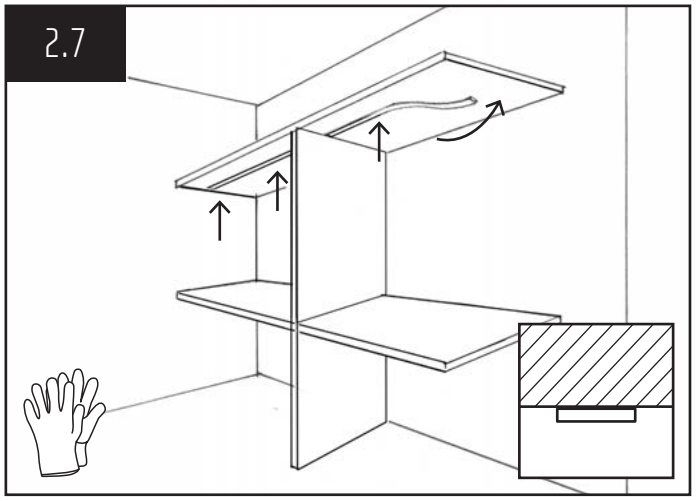

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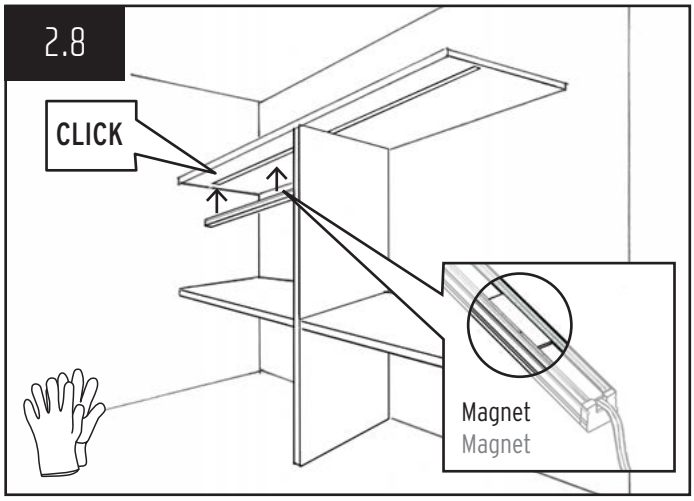

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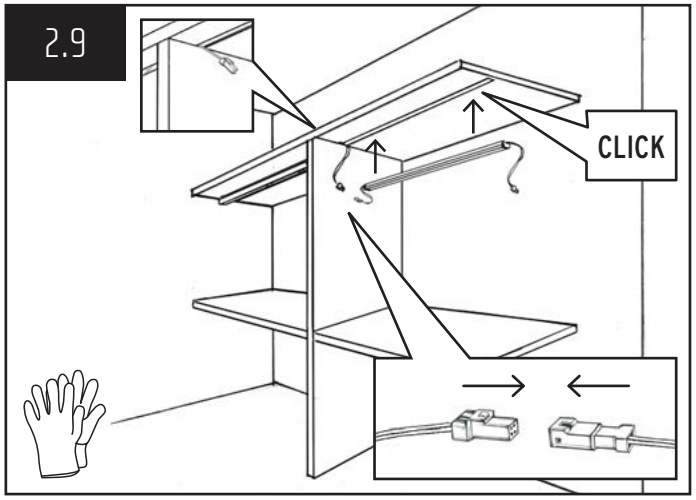
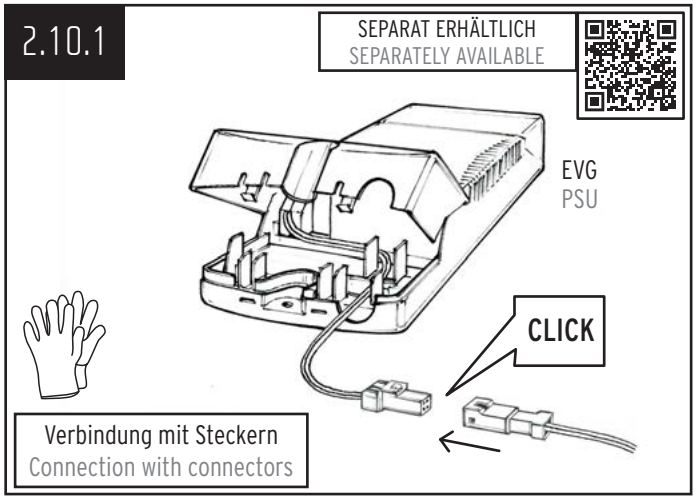


2.10.1



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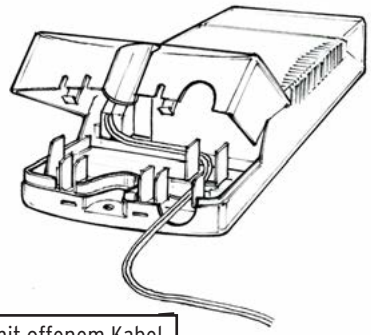
2.10.2

SEPARAT ERHÄLTLICH
SEPARATELY AVAILABLE

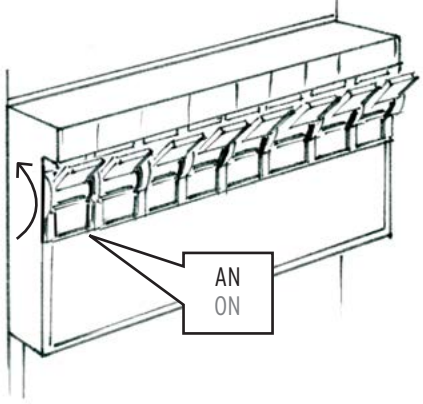


EVG
PSU

Verbindung mit offenem Kabel
Connection with open end cable

CONSTANT VOLTAGE CV

2.11



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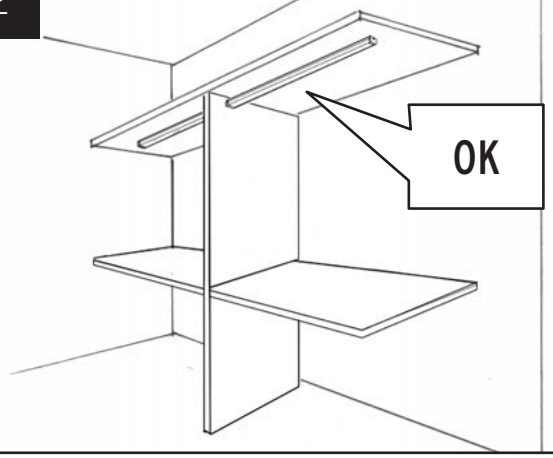
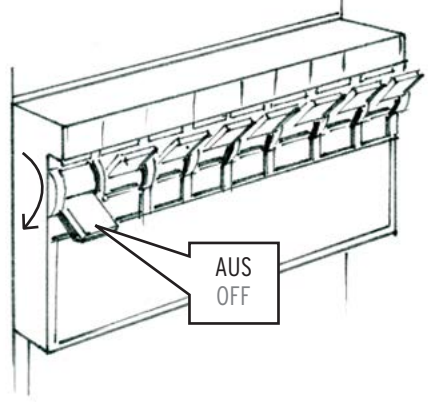


3.1



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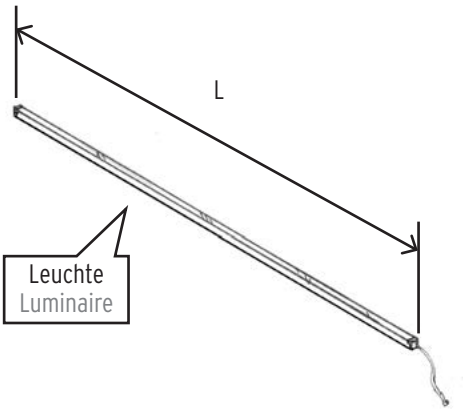

3.3

Formel zur Längenberechnung des Montageprofils
Formula for the length calculation of the mounting profile

2 mm
0.08"
Puffer
Buffer

+

B

15 mm
0.59"
Endkappe
pro Seite
Endcap per side

+

L
Leuchte
Luminaire
maximale Leuchtenlänge:
1950 mm
maximum luminaire length:
6.40'

Formel zur Längenberechnung des Deckenausschnitts
Formula for the length calculation of the ceiling cut out

C

y
Montageprofil
Mounting profile

+

B

25 mm
0.98"
Endkappe
pro Seite
Endcap per side

+

2 mm
0.08"
Puffer
Buffer

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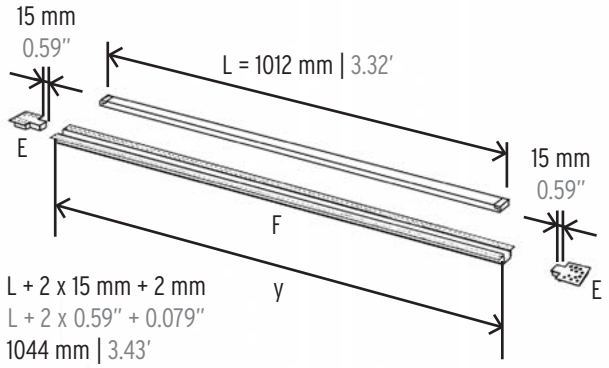
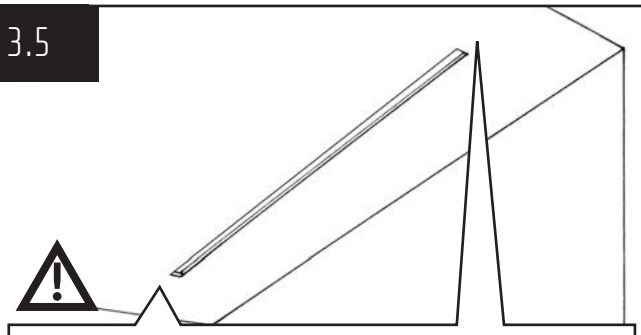
3.4

BEISPIELRECHNUNG FÜR LÄNGENBERECHNUNG MONTAGEPROFIL
EXAMPLE FOR THE LENGTH CALCULATION OF THE MOUNTING PROFILE



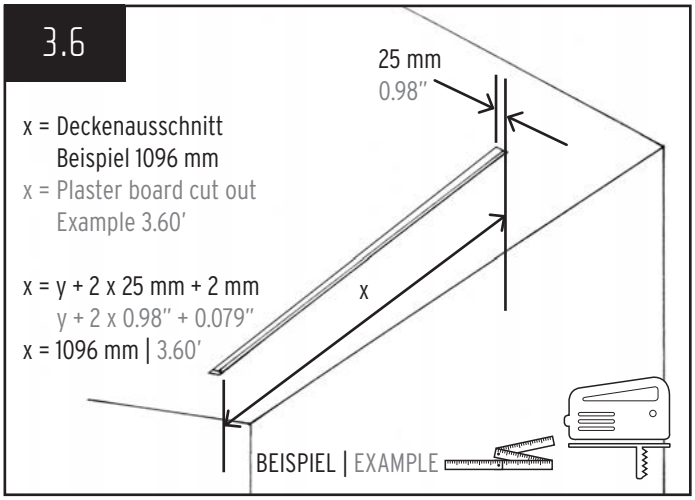
y = L + 2 x 15 mm + 2 mm
L + 2 x 0.59" + 0.079"
y = 1044 mm | 3.43'

3.5



Am Anfang und am Ende der Deckenaussparung darf sich keine Unterkonstuktion der abgehangenen Decke befinden
There must be no substructure of the suspended ceiling at the beginning and end of the ceiling recess

3.6

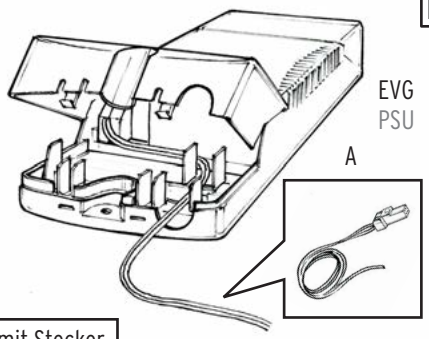


x = Deckenausschnitt
Beispiel 1096 mm
x = Plaster board cut out
Example 3.60'

x = y + 2 x 25 mm + 2 mm
y + 2 x 0.98" + 0.079"
x = 1096 mm | 3.60'

3.7

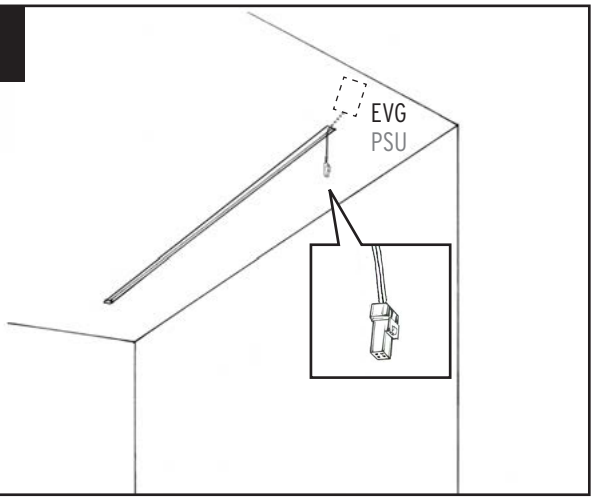
SEPARAT ERHÄLTLICH
SEPARATELY AVAILABLE



Verbindung mit Stecker
Connection with plug

CONSTANT VOLTAGE CV

3.8



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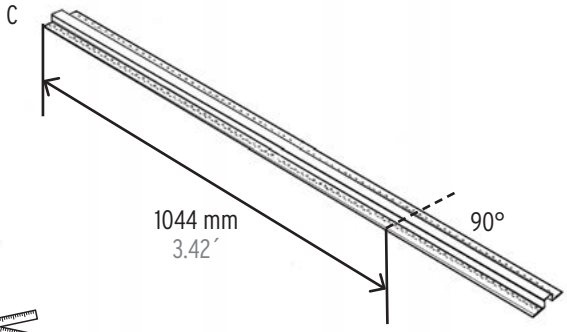
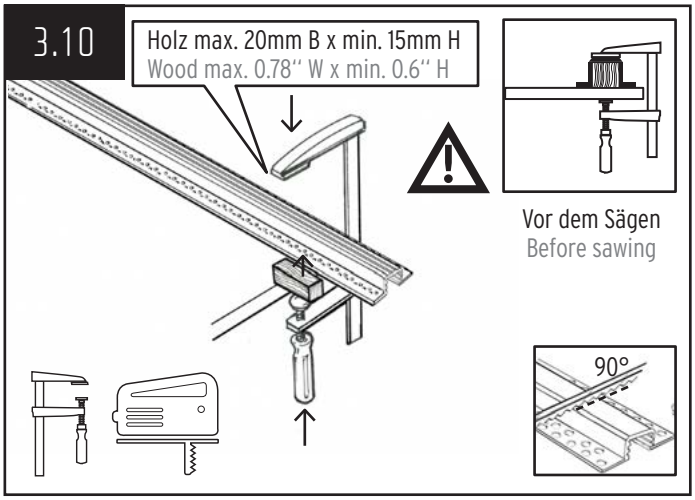


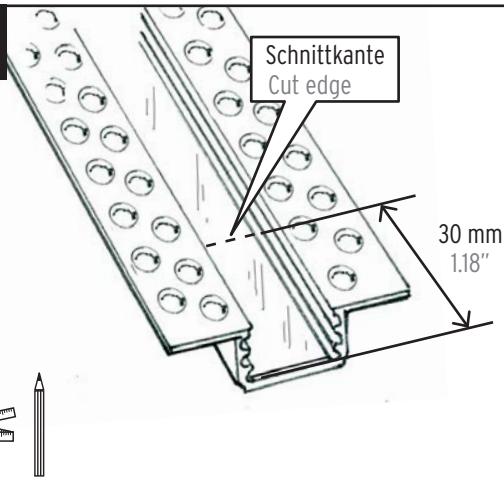
BEISPIEL | EXAMPLE

3.10



Vor dem Sägen
Before sawing

3.11



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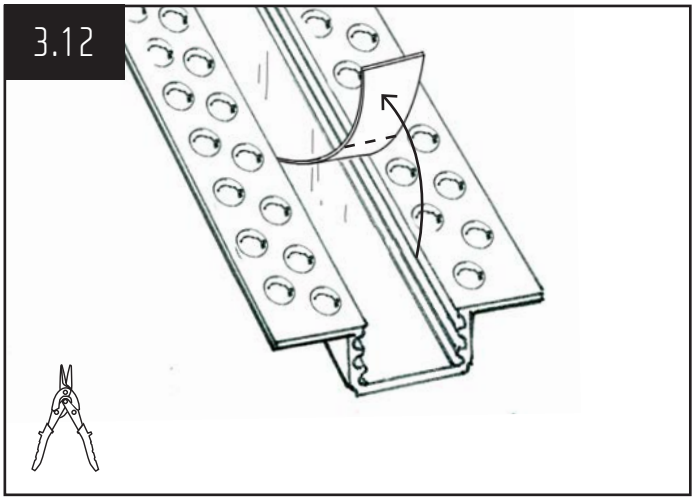
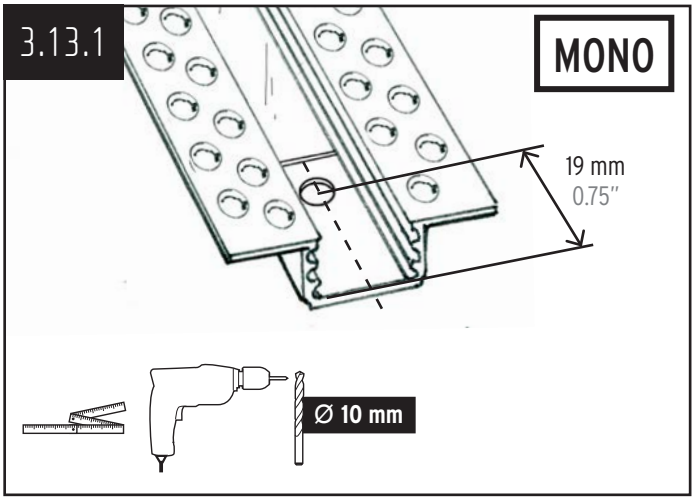
3.12



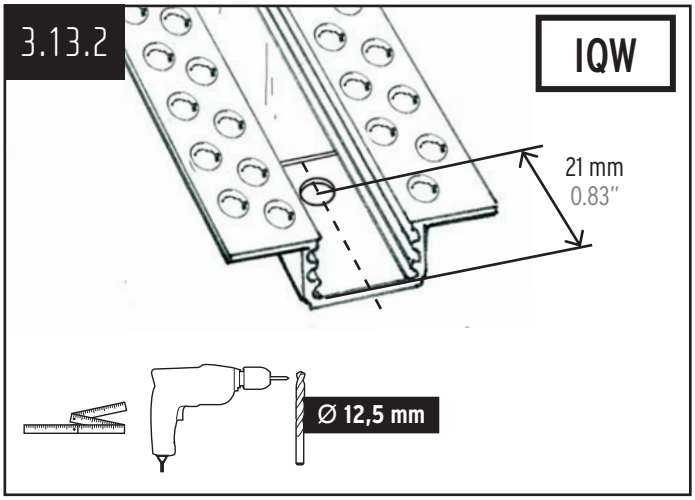
3.13.1

MONO



3.13.2

IQW



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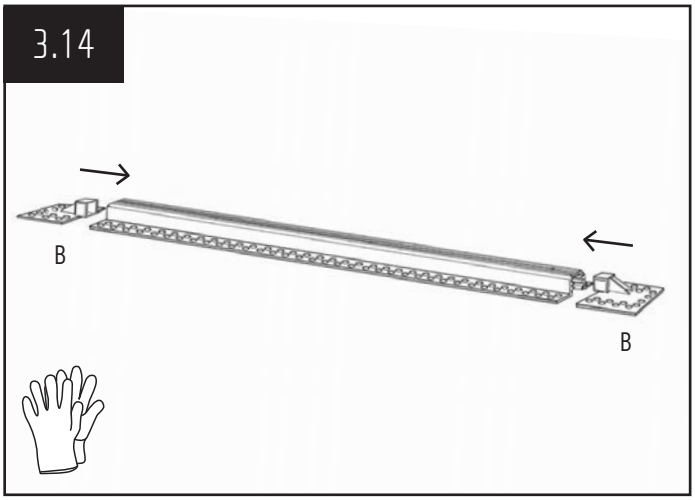

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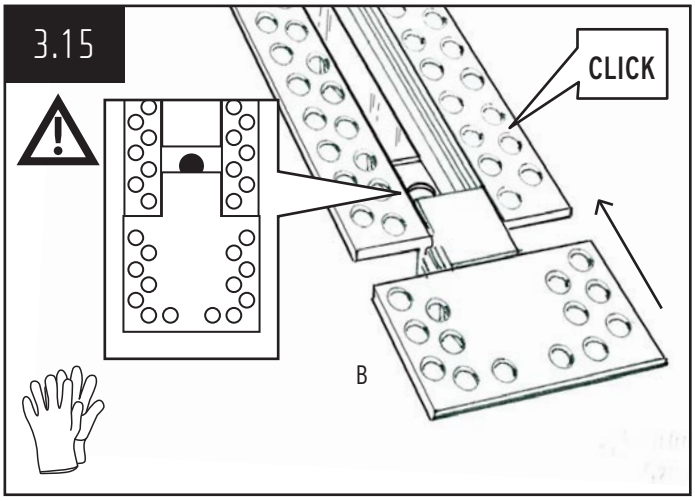

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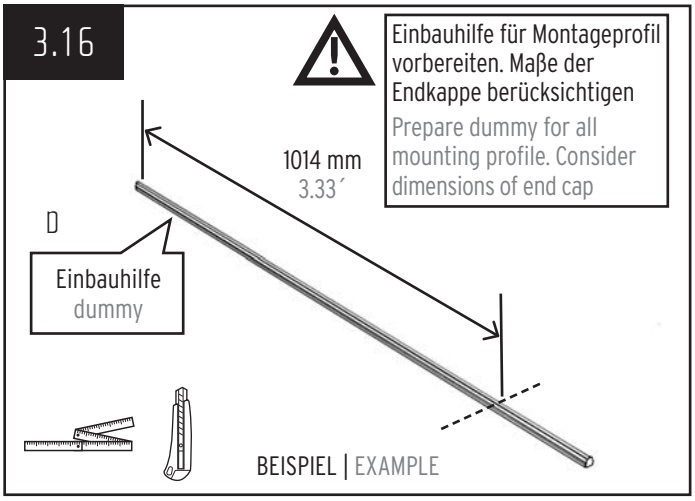

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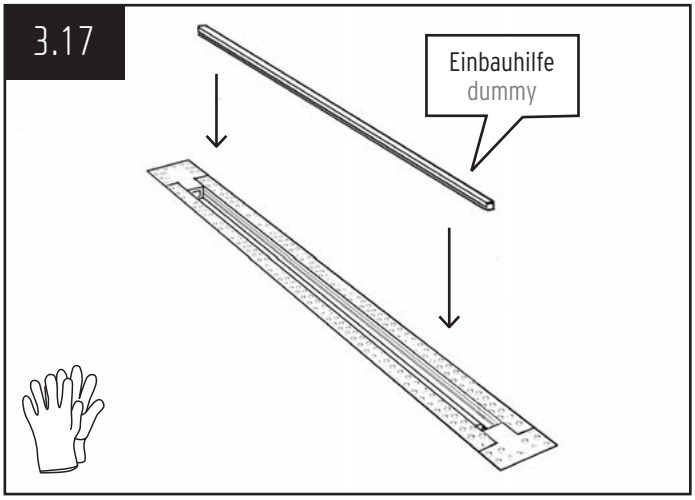

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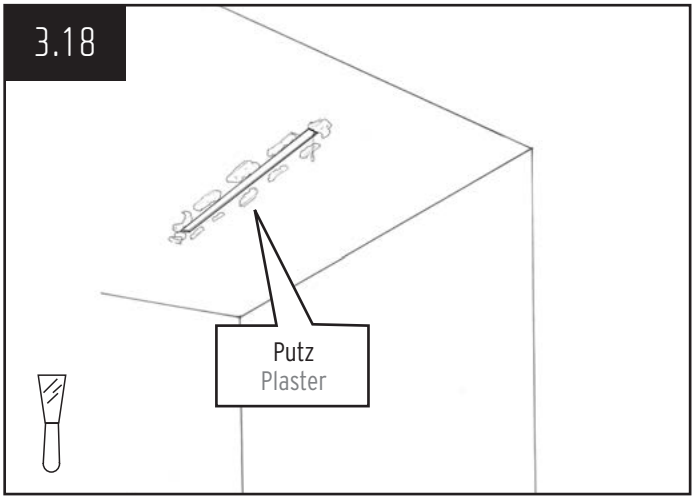

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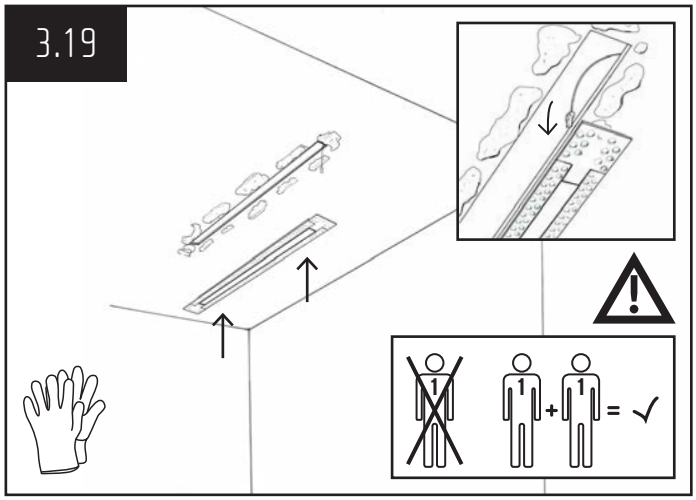
3.19



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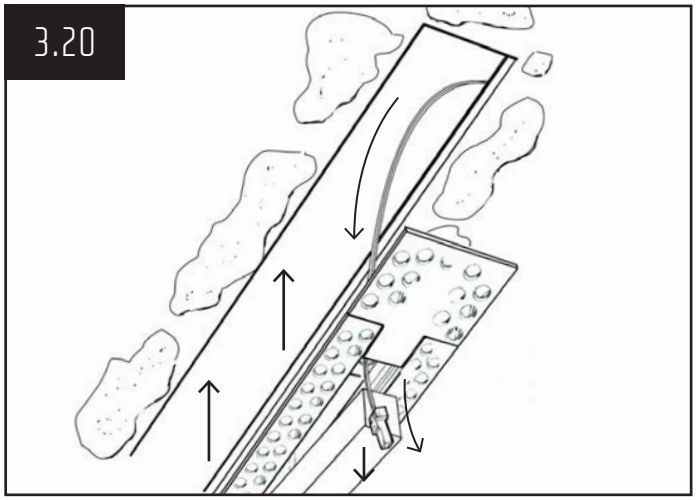

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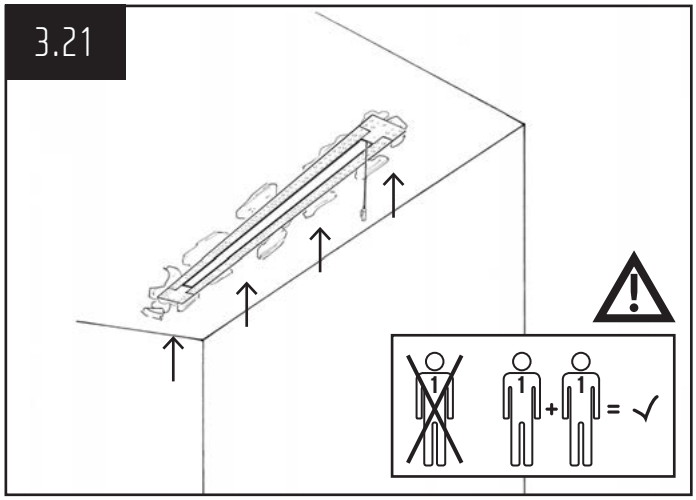

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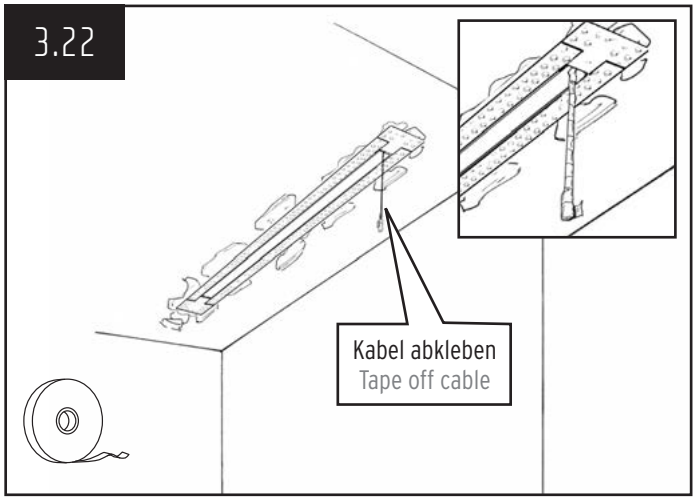

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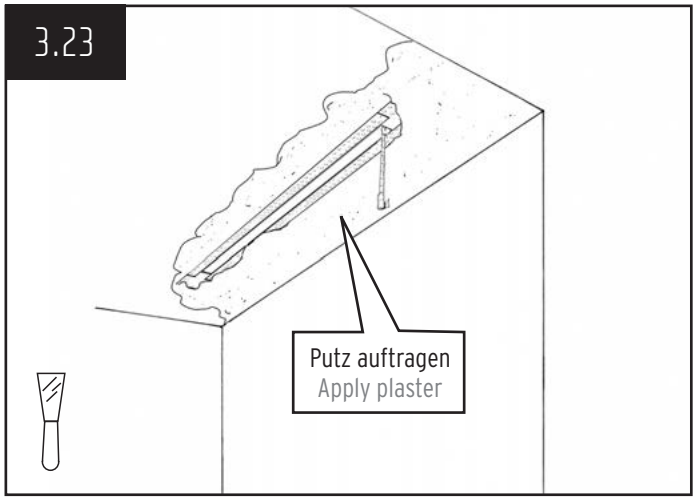

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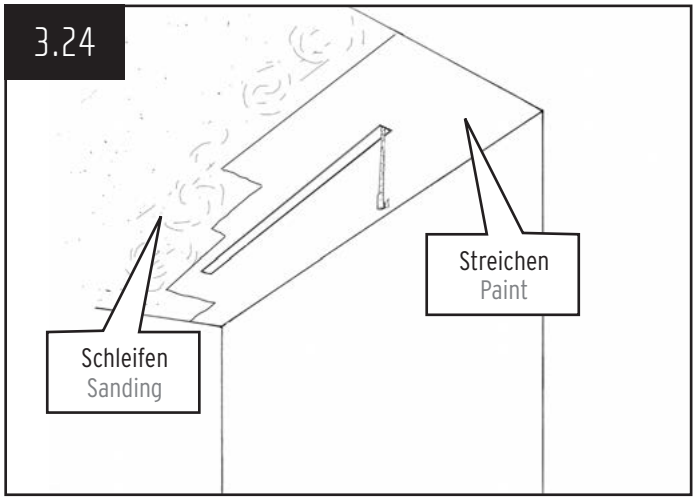

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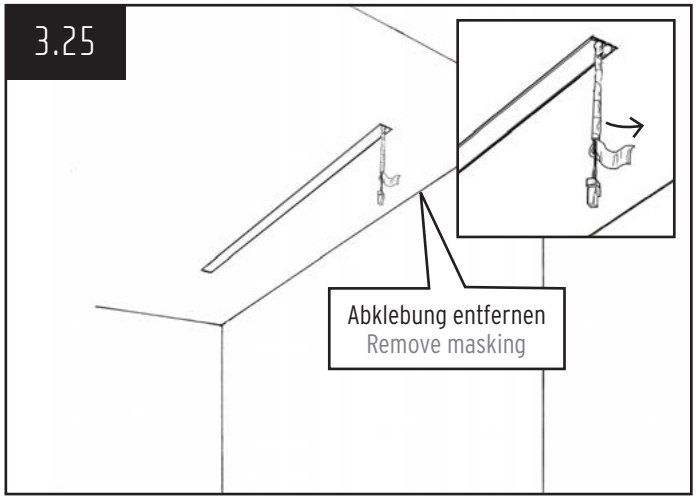

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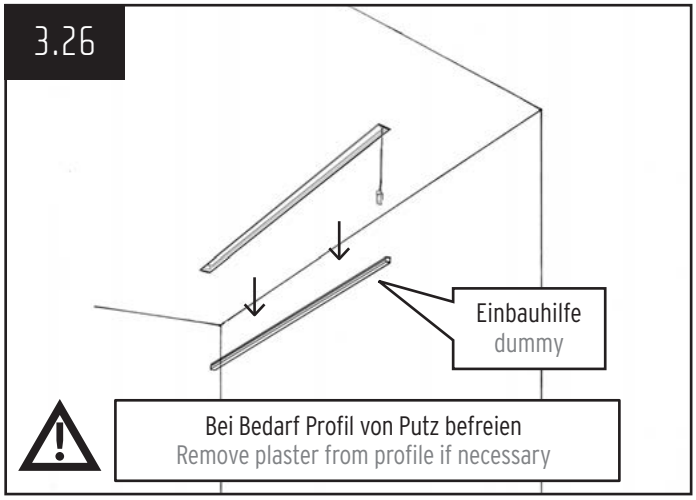

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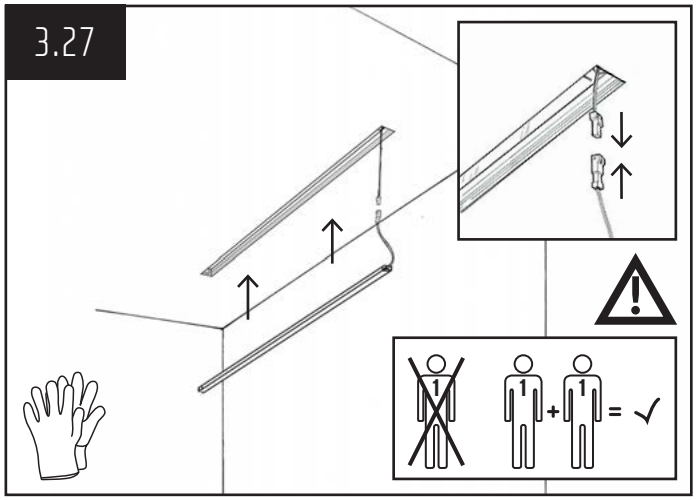

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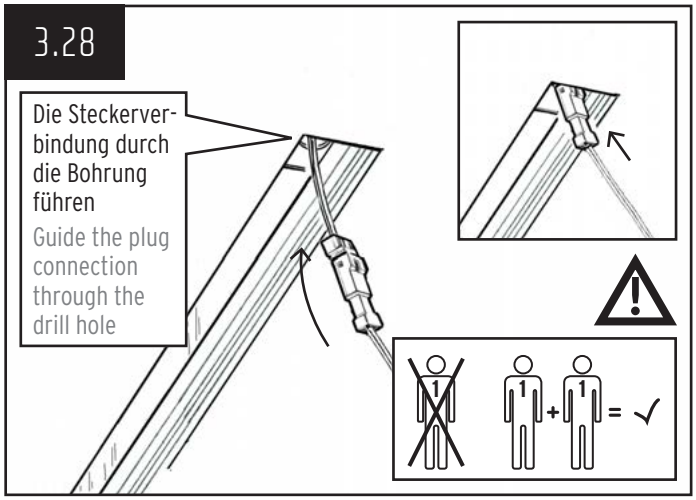

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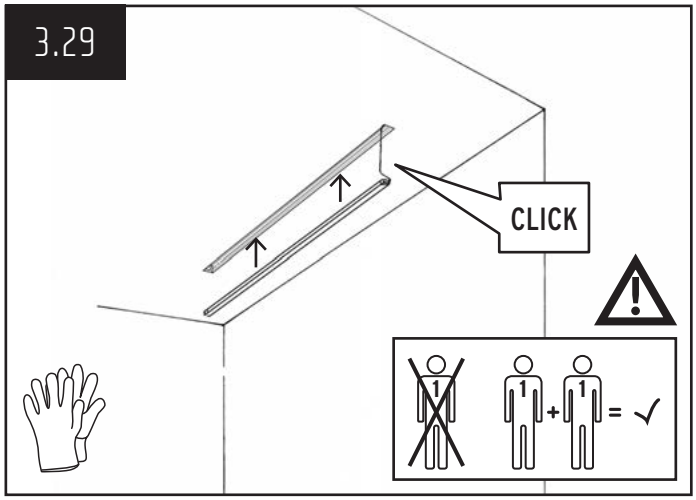

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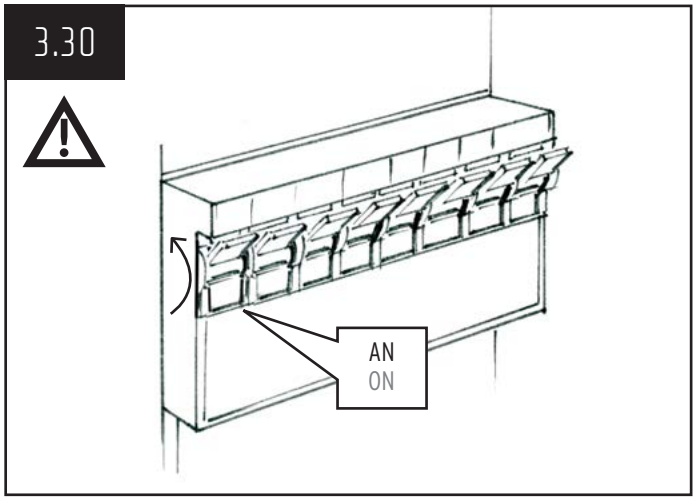

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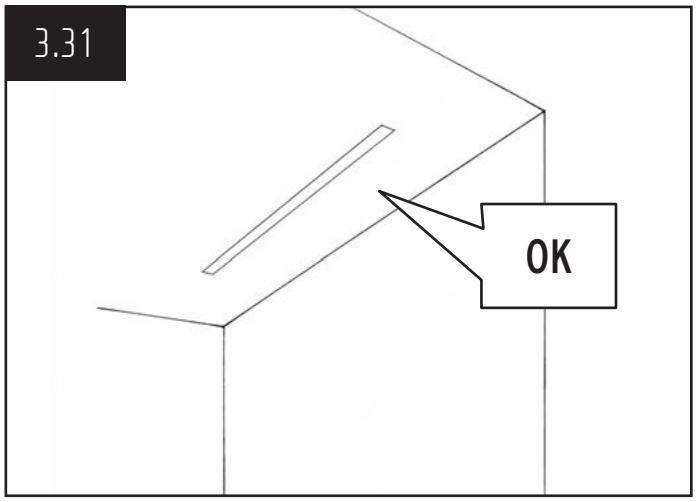
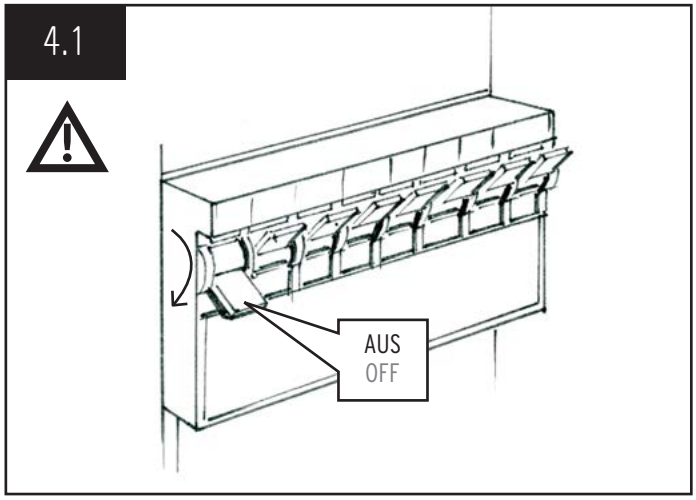


4.1



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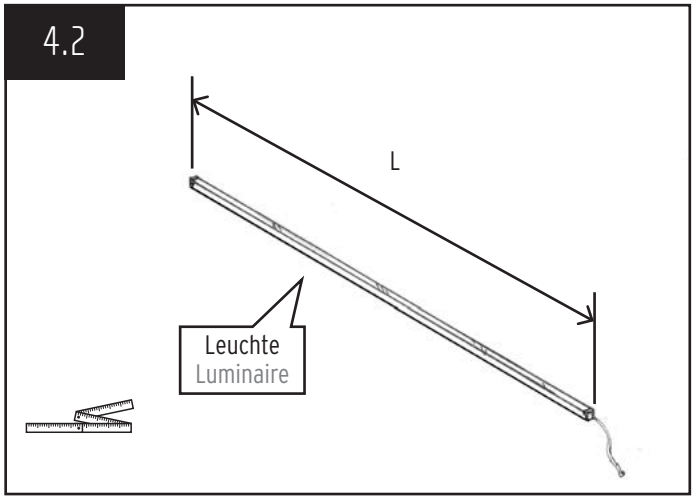

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4.3

Formel zur Längenberechnung des Montageprofils
Formula for the length calculation of the mounting profile

2 mm
0.08"
Puffer
Buffer

+

15 mm
0.59"
Endkappe
pro Seite
Endcap per side

+

L
Leuchte
Luminaire
maximale Leuchtenlänge:
1950 mm
maximum luminaire length:
6.40'

Formel zur Längenberechnung des Deckenausschnitts
Formula for the length calculation of the ceiling cut out

y
Montageprofil
Mounting profile

+

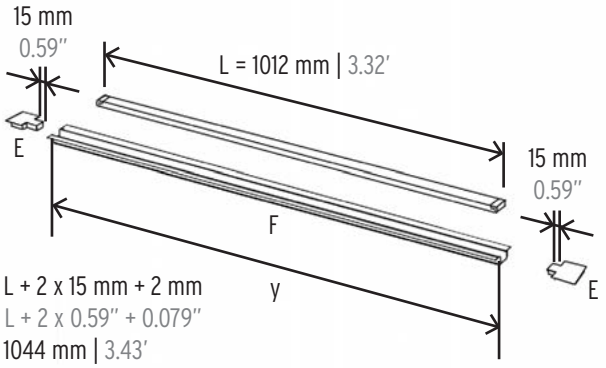
25 mm
0.98"
Endkappe
pro Seite
Endcap per side

+

2 mm
0.08"
Puffer
Buffer

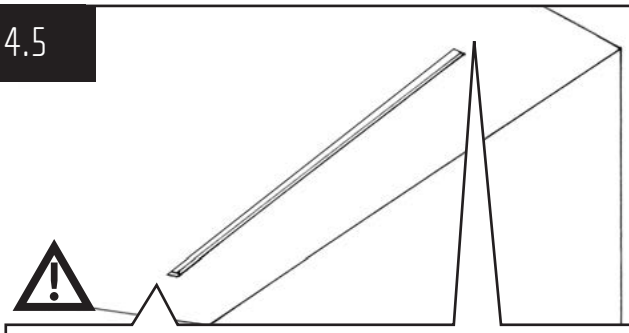
4.4

BEISPIELRECHNUNG FÜR LÄNGENBERECHNUNG MONTAGEPROFIL
EXAMPLE FOR THE LENGTH CALCULATION OF THE MOUNTING PROFILE



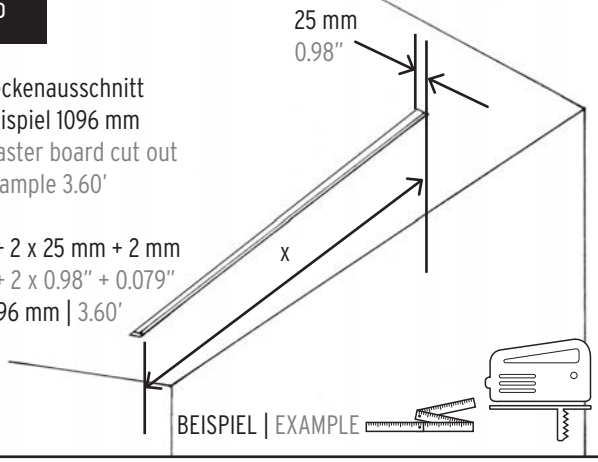
y = L + 2 x 15 mm + 2 mm
L + 2 x 0.59" + 0.079"
y = 1044 mm | 3.43'

4.5



Am Anfang und am Ende der Deckenaussparung darf sich keine Unterkonstuktion der abgehangenen Decke befinden
There must be no substructure of the suspended ceiling at the beginning and end of the ceiling recess

4.6

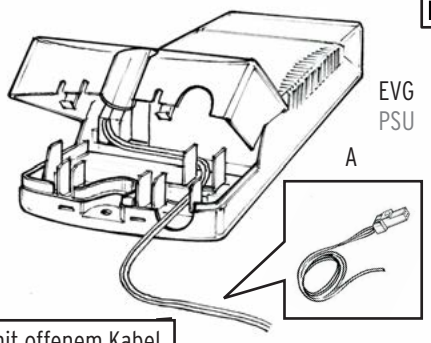


x = Deckenausschnitt
Beispiel 1096 mm
x = Plaster board cut out
Example 3.60'

x = y + 2 x 25 mm + 2 mm
y + 2 x 0.98" + 0.079"
x = 1096 mm | 3.60'

4.7

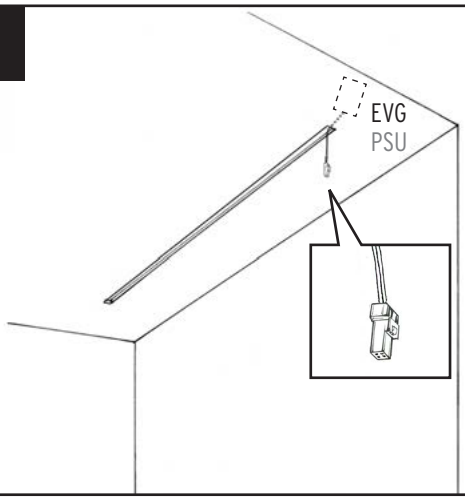
SEPARAT ERHÄLTLICH
SEPARATELY AVAILABLE



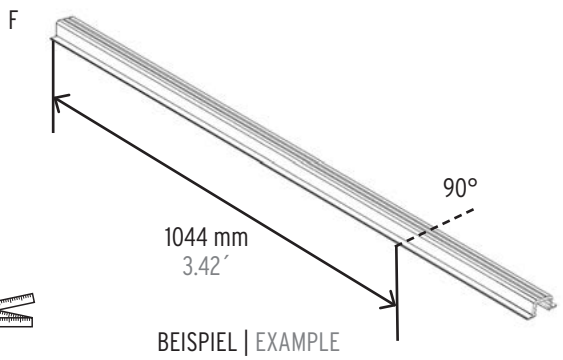
Verbindung mit offenem Kabel
Connection with open end cable

CONSTANT VOLTAGE CV

4.8



4.9



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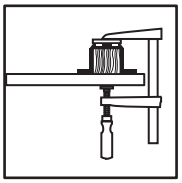
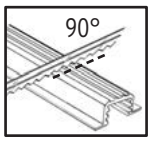
4.10

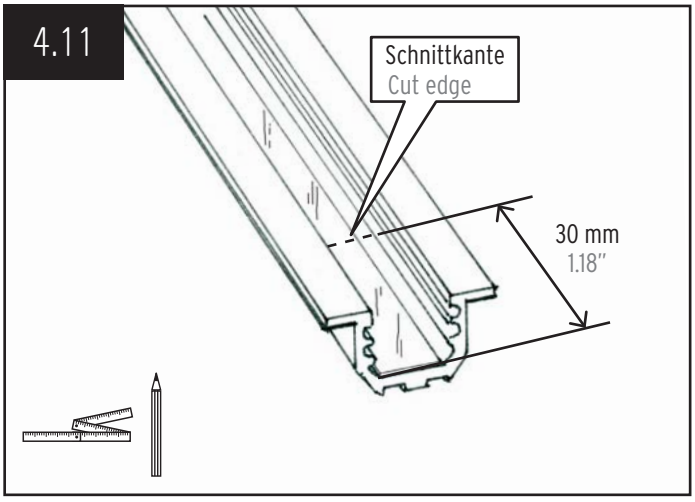
Holz max. 20mm B x min. 15mm H
Wood max. 0.78'' W x min. 0.6'' H



Vor dem Sägen
Before sawing



4.11



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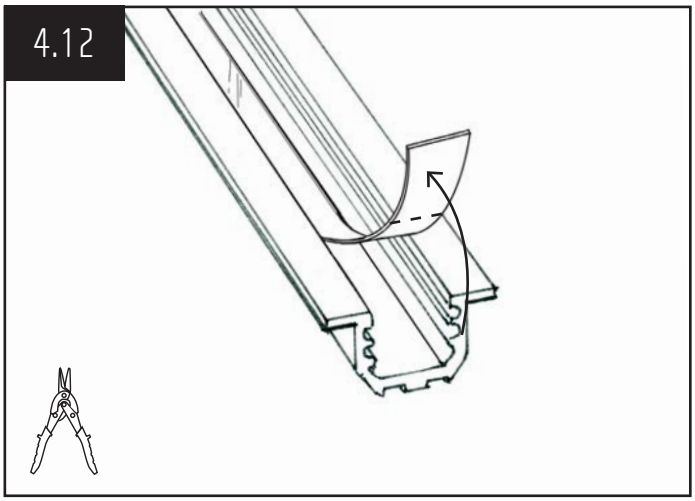
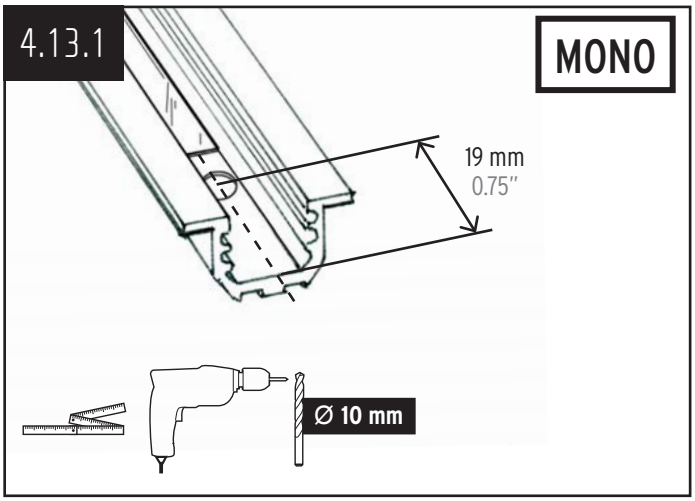


4.13.1

MONO



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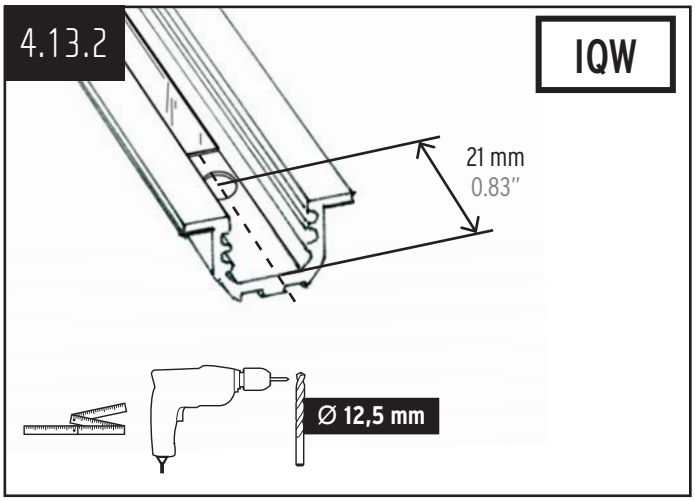
IQW



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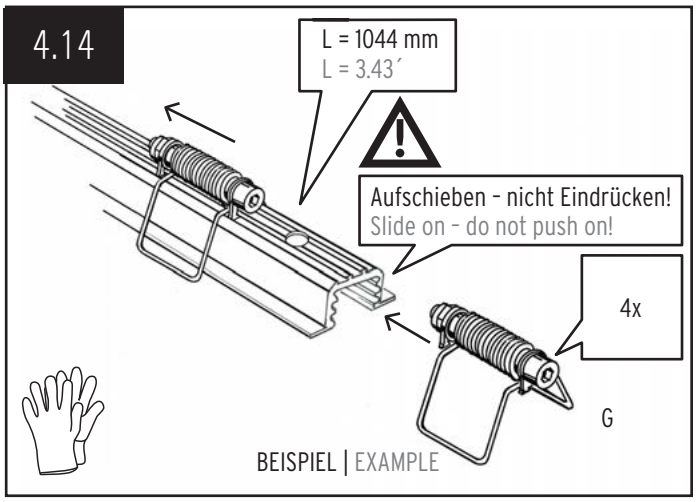
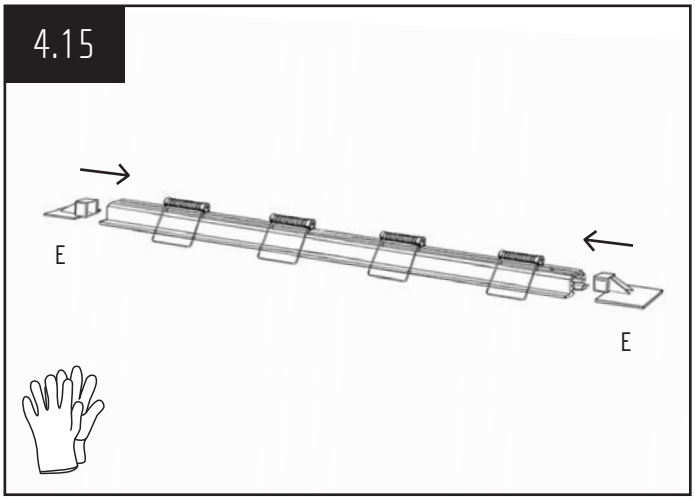


BEISPIEL | EXAMPLE

4.15



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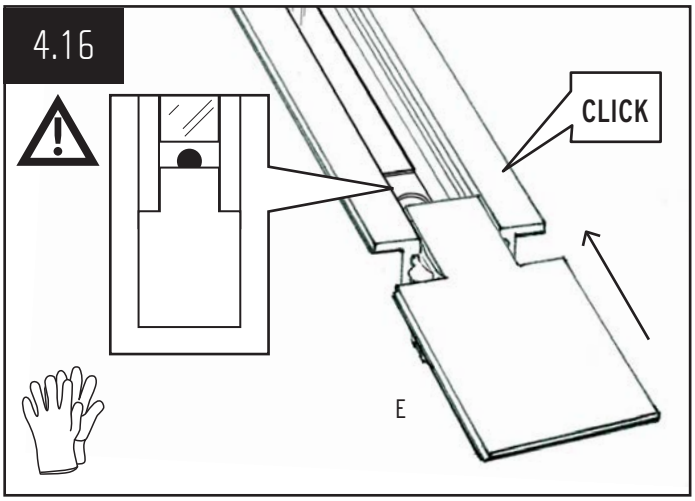

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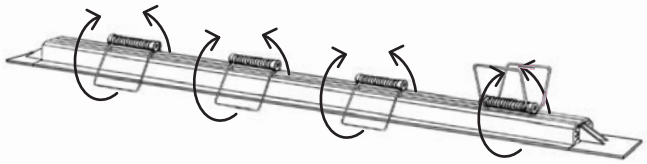
4.17



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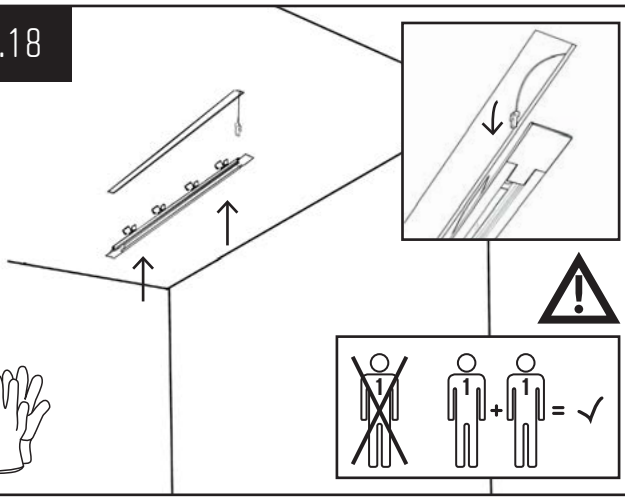

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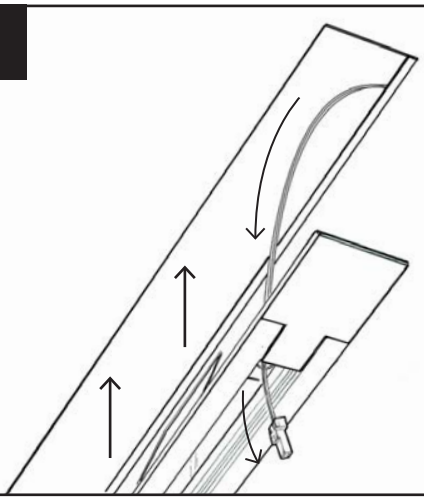

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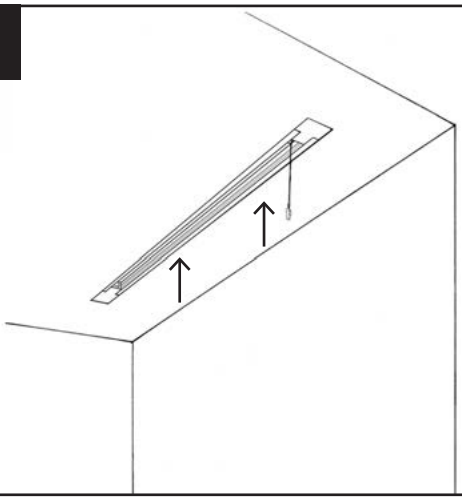

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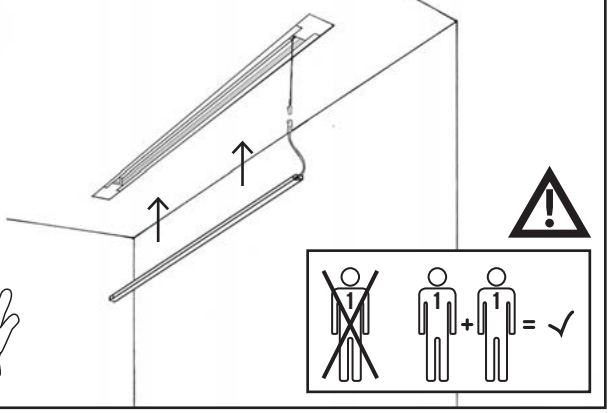

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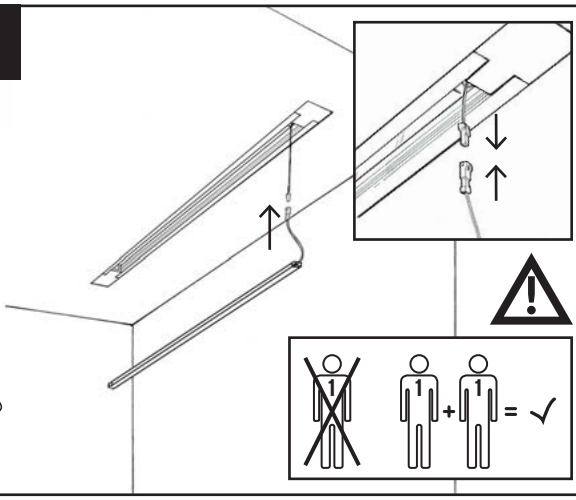
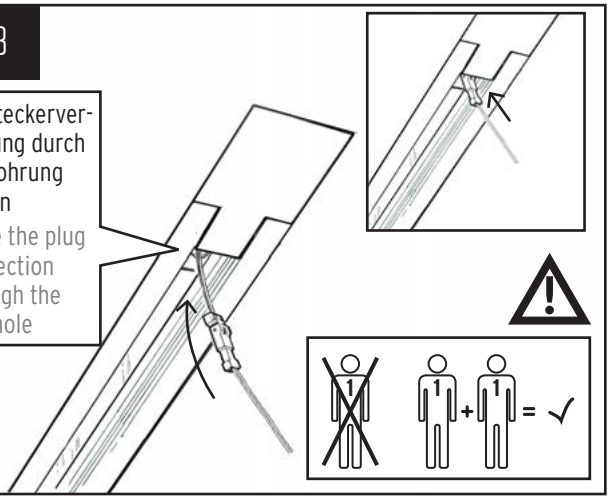


4.23

Die Steckerverbindung durch die Bohrung führen

Guide the plug connection through the drill hole



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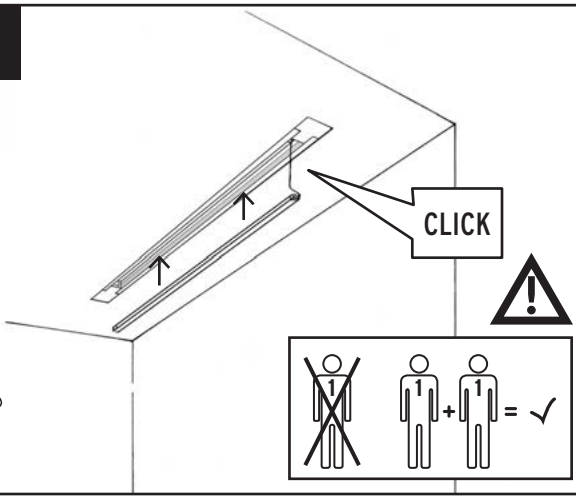

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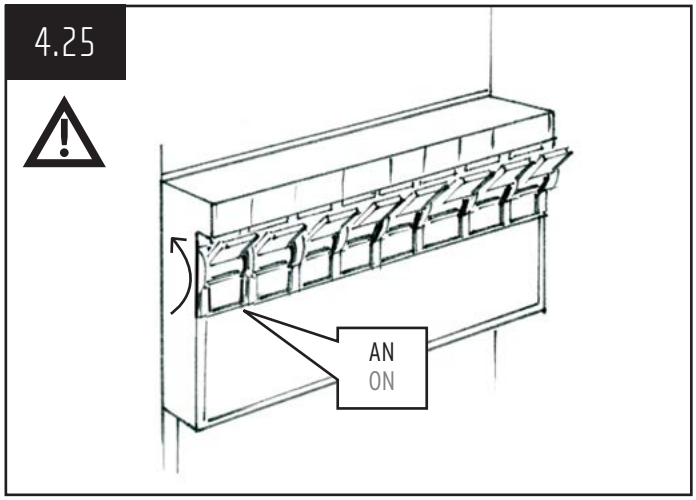

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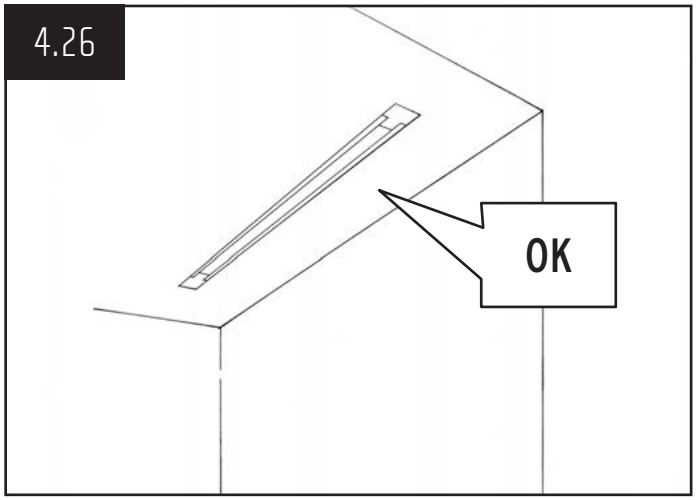

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