## LEGEND

| | | | |
|---|---|---|---|
| **4 Years** | 4-year warranty | **NA** | Non-Anodized |
| **RoHS** ✔ | Restriction of Hazardous Substance | **SA** | Silver Anodized |
| ⊔ | Recessed | **BK** | Black Anodized |
| ∿ | Bendable | **WT** | White |
| Closet | Closet-Rated | ▲ | Focusing Lens with 100% light transmission |
| **22** | IP22 | **PRO CL** | Universal Clear Pro with 91% light transmission |
| **SW** | Static White | **PRO FR** | Universal Frosted Pro with 80% light transmission |
| **HD** | High Density | **UNV CL** | Universal Clear with 85% light transmission |
| **FS** | Full Spectrum | **UNV FR** | Universal Frosted with 70% light transmission |
| **SE** | Side Emitting | **EX CL** | Extreme Clear with 89% light transmission |
| **US** | Ultra Slim | **EX FR** | Extreme Frosted with 70% light transmission |
| **DW** | Dim to Warm | **IG GRND** | In-Ground Frosted with 58% light transmission |
| **TW** | Tunable White | **US FR** | Ultra Slim Frosted with 70% light transmission |

*Most Xicato Channels are IP65 ready with proper sealant applied around the end caps to completely seal the XFL inside the channel.

Xicato designs and delivers one of the broadest portfolio spot and linear light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato continues to be a leading supplier of high quality lighting solutions. Xicato is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007, Xicato has offices in China, Europe and the U.S., with it's headquarters based in Silicon Valley.

# Xicato®

## Product Description

- Due to its high integrity and high load bearing capacity, the extrusion is ideal for high-traffic areas such as sidewalks, bike paths, environment friendly
- Designed to obtain an IP67 waterproof rating
- Designed to reach IK10 degree of protection against mechanical impact
- Resistant to pedestrian and road traffic

## Finish

Non anodized (raw) **NA**

## XCC-L Lenses*

**IG GRND**
58%

XCC-L-GND-FR

## XCC-E End Caps*

XCC-E-GND-NA-NC-HOLE
XCC-E-GND-NA-NC-STD

## Internal Channel Dimensions

Height: 18.5mm
Width for LED: 12.2mm

## Compatible XFL Products

**22** → **SW** **HD** **FS** **US** **DW** **TW**

## Product Image



## Technical Drawing



[1.024in] 26mm
[0.689in] 17.50mm
[1.024in] 26mm
[0.728in] 18.50mm
[0.480in] 12.2mm

## As Installed



## SKU Information

| Product | Collection | Name Code | Surface Code | Length |
|---------|-----------|-----------|--------------|--------|
| XCC | C | GND | NA | 1 |
| | | | | 2 |
| | | | | 3 |

*For more detailed information please see Compatible Accessories guide
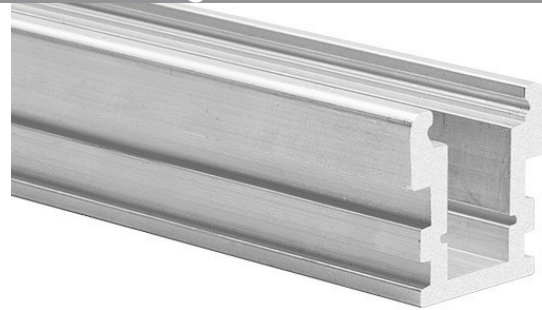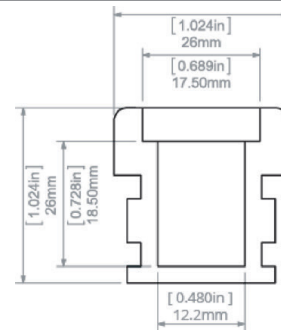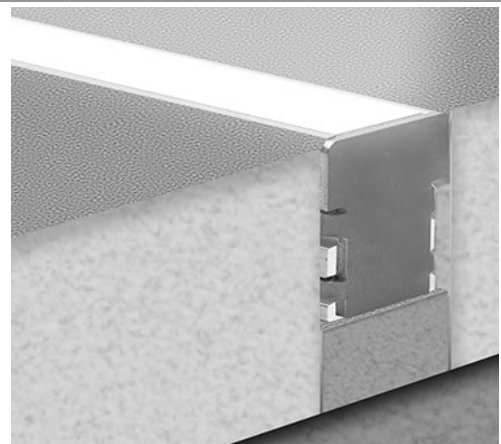
## Technical Specification

Application:
- Construction of watertight, ground lighting fixtures inside and outside buildings (walkways, car parks, driveways)

Mounting:
- Mounted on spacer foam in a prepared gap in the hardened surface (e.g. paving stones)
- The remaining gap should be filled with sand

Additional information:
- Dedicated glands must be used for the correct application of the profile
- Water-tight splitters and couplers are used to run the cables powering the light fixture in the ground
- It is extremely important to properly seal all necessary components (extrusion, covers, end caps, LEDs)
- For sealing extrusion we recommend using transparent neutral silicone
- When choosing other sealing materials it is important to know their quality, applications and that they do not conduct electricity
- The quality of extrusion sealing depends solely on the quality and precision of the sealing process as well as the quality of the sealing material
- Profile construction makes it durable and sturdy, resistant to standard loads (up to 20 kN)
- Space for LED strip: 0.48" / 12.2 mm. Possibility of making a linear fixture with IP67 protection, which means the fixture is dustproof and waterproof
- Achieving IP67 is possible with the corresponding cover and end caps
- Possibility of making a linear fixture with IK10 degree of protection against mechanical impact, which means that the fixture can withstand an impact of a 5kg weight dropped from a 40cm height with 20J energy
- IK10 can be obtained with the corresponding cover and end caps

## Note

Turn off LED lights during peak day light hours in outdoor applications to avoid excessive heat buildup which will result in diminished LED life.

## Compatible Lenses

### XCC-L-GND-FR
In-Ground Frosted
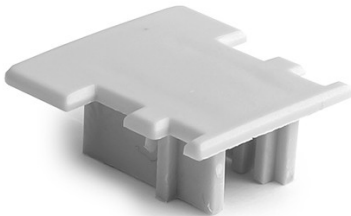
**IG GRND**
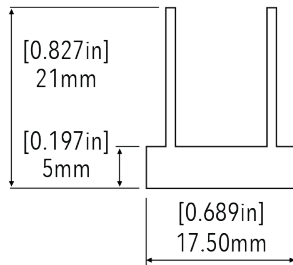
**58%**

**Description**

Sturdy lens that easily adapts to the in-ground channel to seal the fixture. Lens has a good fire and mechanical resistance with complete UV protection. Transmits 58% light.

[0.827in] 21mm

[0.197in] 5mm

[0.689in] 17.50mm

| SKU | | | | |
|---|---|---|---|---|
| **Product** | **Collection** | **Name Code** | **Surface Code** | **Length** |
| XCC | L | IG | FR | |
| | | | | 1 |
| | | | | 2 |
| | | | | 3 |

## Compatible End Caps

### XCC-E-GND-NA-NC-STD

**Description**

Basic PP end cap in gray. High resistance to damage. Will not corrode. Simple assembly. Aesthetically finishes the extrusion.

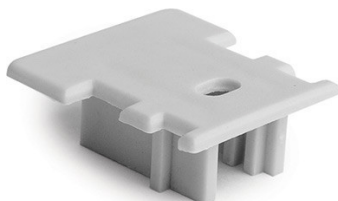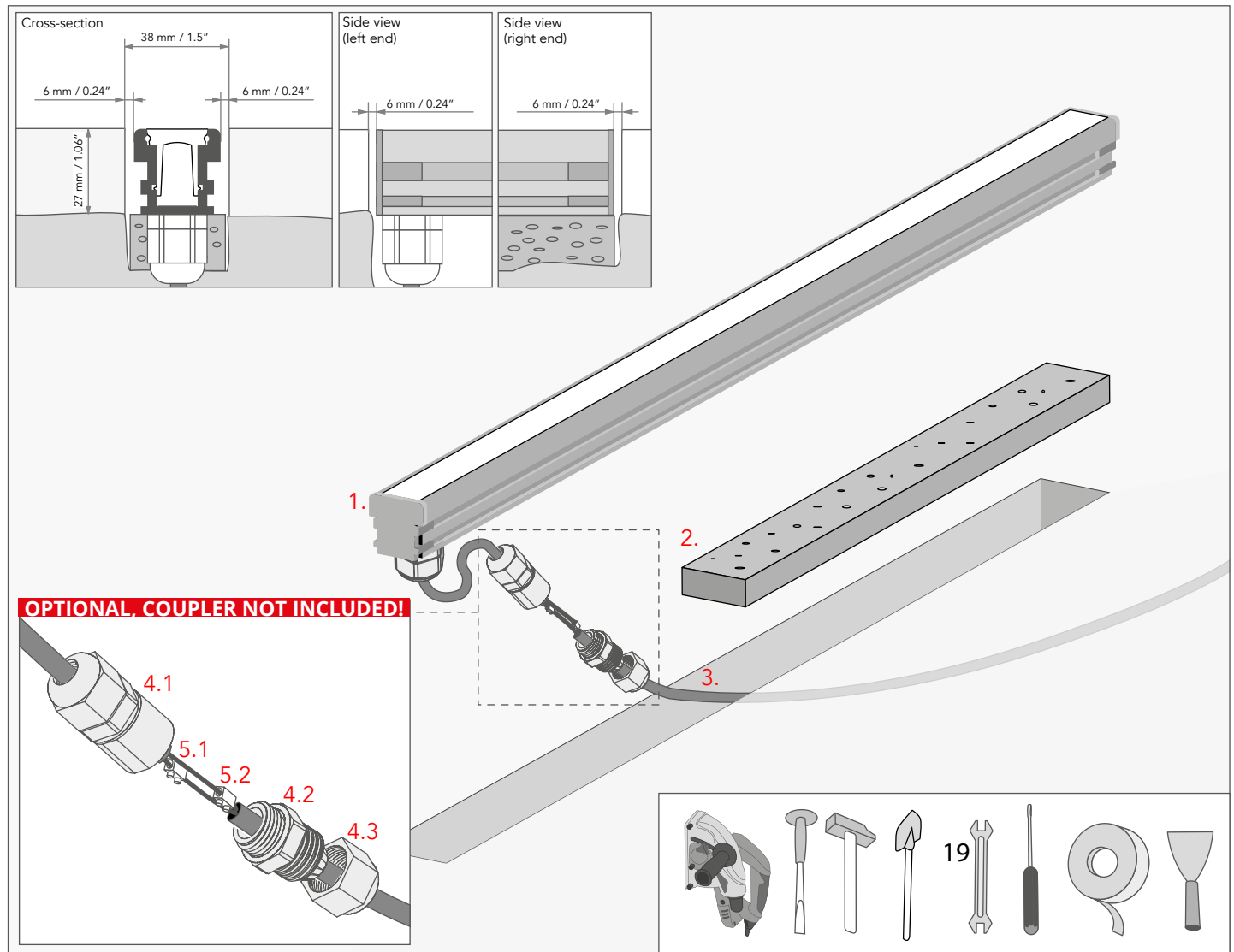| SKU | | | |
|---|---|---|---|
| **Product Number** | **Material** | **Color** | **UV Resistant** |
| XCC-E-GND-NA-NC-STD | PP | GRAY | NO |

### XCC-E-GND-NA-NC-HOLE

**Description**

Basic PP end cap in gray. High resistance to damage. Will not corrode. Simple assembly. Aesthetically finishes the extrusion.

| SKU | | | |
|---|---|---|---|
| **Product Number** | **Material** | **Color** | **UV Resistant** |
| XCC-E-GND-NA-NC-HOLE | PP | GRAY | NO |

## Mounting Instructions For Concrete



Cross-section
38 mm / 1.5"
6 mm / 0.24"
6 mm / 0.24"
27 mm / 1.06"

Side view
(left end)
6 mm / 0.24"

Side view
(right end)
6 mm / 0.24"

1.

2.

3.

**OPTIONAL, COUPLER NOT INCLUDED!**

4.1
5.1
5.2
4.2
4.3

19

1. XCC-C-GND: Standard In Ground Channel
2. Pad*
3. Cable to power supply 24 V          *
4.1 Hermetic coupler (item 4.1) *
4.2 Hermetic coupler (item 4.1) *       **OPTIONAL, COUPLER NOT INCLUDED!**
4.3 Hermetic coupler (item 4.1) *
5.1 Connector (item 5.1) *
5.2 Connector (item 5.2) *

# NOTE:

- All LED tapes must be connected to a 24 V power supply.
- Not all possible mounting procedures are presented here.
- Drawings of extrusions and accessories in these instructions are simplified and only approximate the actual shapes.

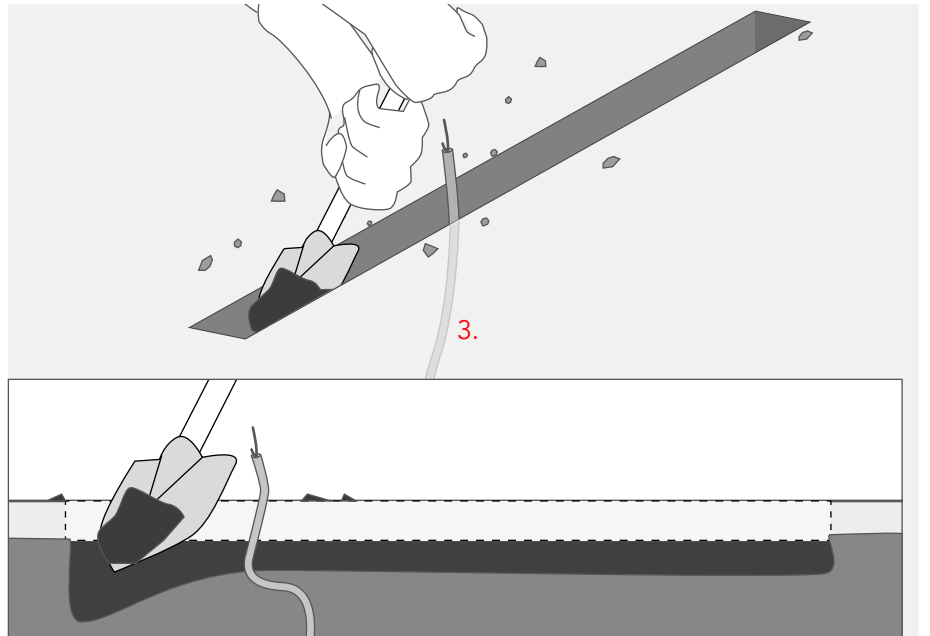## Mounting Instructions For Concrete (Continued)

**1**

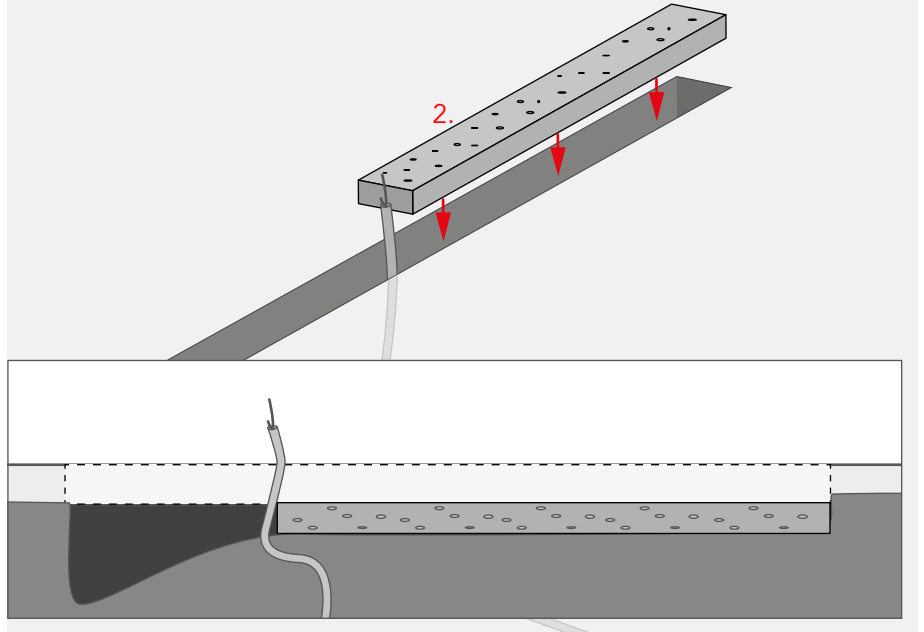Cut the groove in the concrete surface for the XCC-C-GND channel.
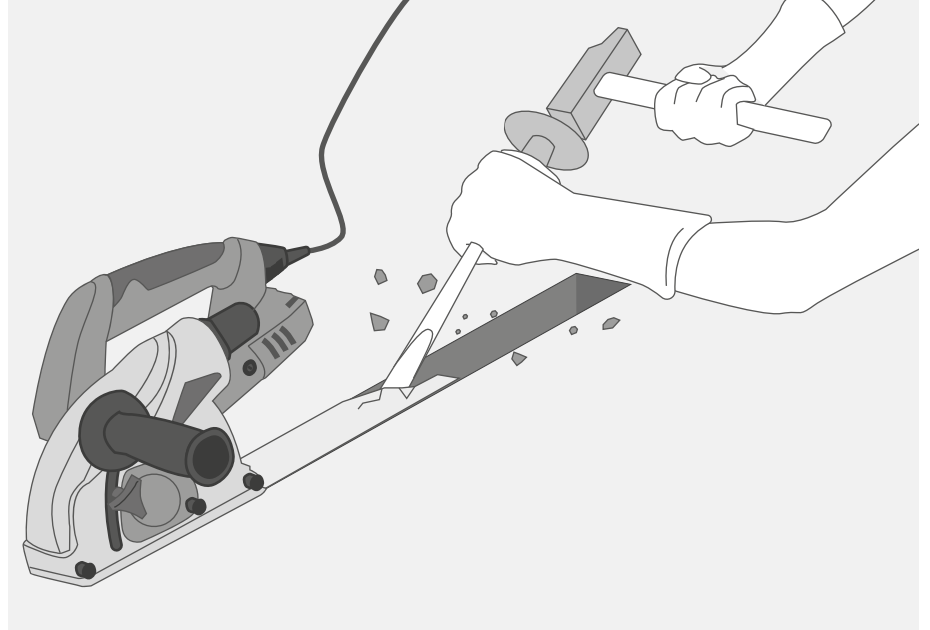
**2**

- Make space in the bottom of the groove for accessories necessary to mount the fixture.

- Lead the cable from the power supply 24V (3) to it.
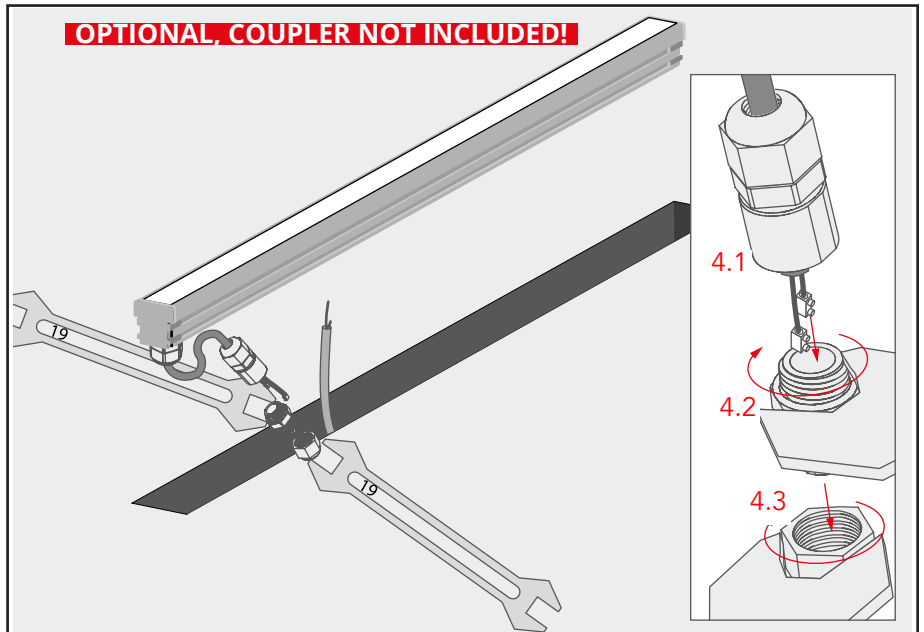
## Mounting Instructions For Concrete (Continued)

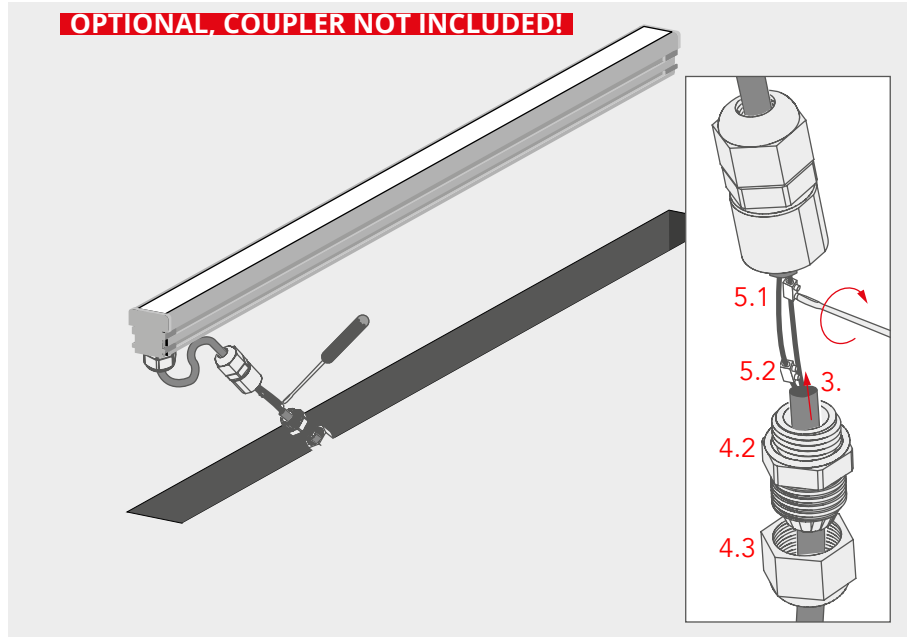**3**

Place the pad (2) in the groove.



**4**

Detach items (4.2, 4.3) of the hermetic coupler from item (4.1).

**OPTIONAL, COUPLER NOT INCLUDED!**

## Mounting Instructions For Concrete (Continued)

**3**

Lead the cable (3) through items (4.2, 4.3) of the hermetic coupler and attach it to the cable from the fixture, using both items (5.1, 5.2) of the connector.
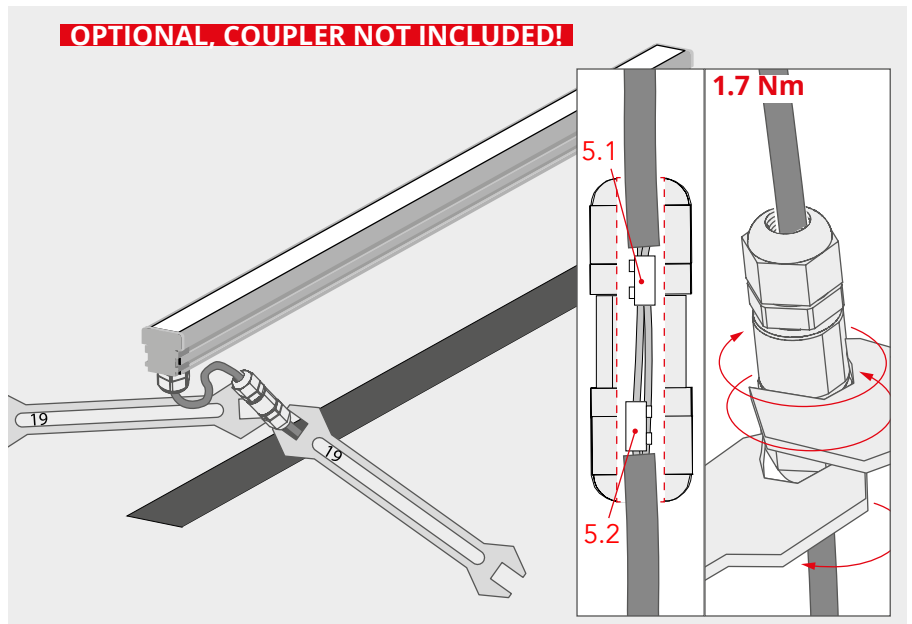


**OPTIONAL, COUPLER NOT INCLUDED!**

5.1
5.2
3.
4.2
4.3

**4**

Screw together all the items of the coupler.

**NOTE!** When inserting cables into the coupler, make sure that both items (5.1, 5.2) of the coupler are not touching each other.
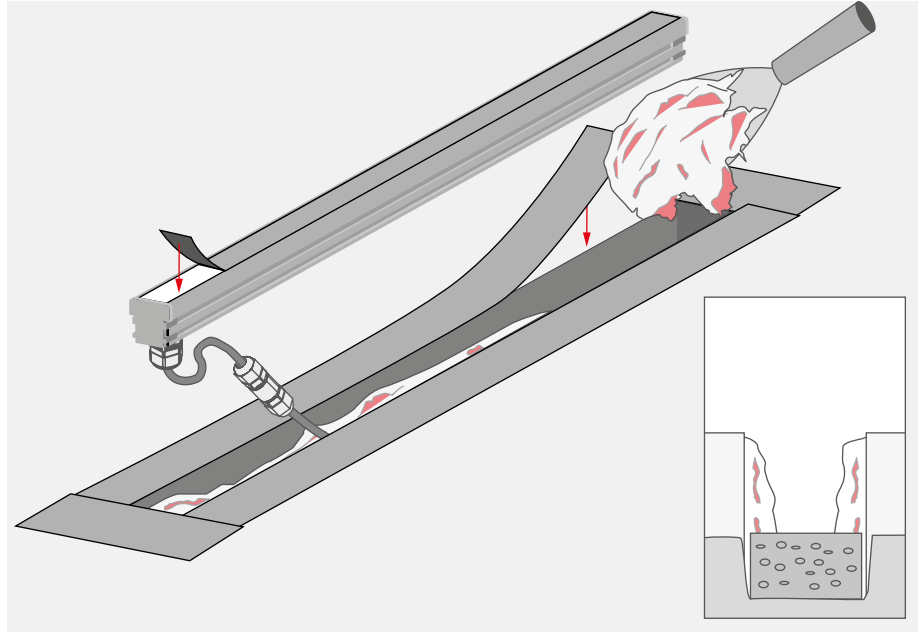
**NOTE!** The items must be tightened with torsional power equal to 1.7 Nm.



**OPTIONAL, COUPLER NOT INCLUDED!**

**1.7 Nm**

5.1
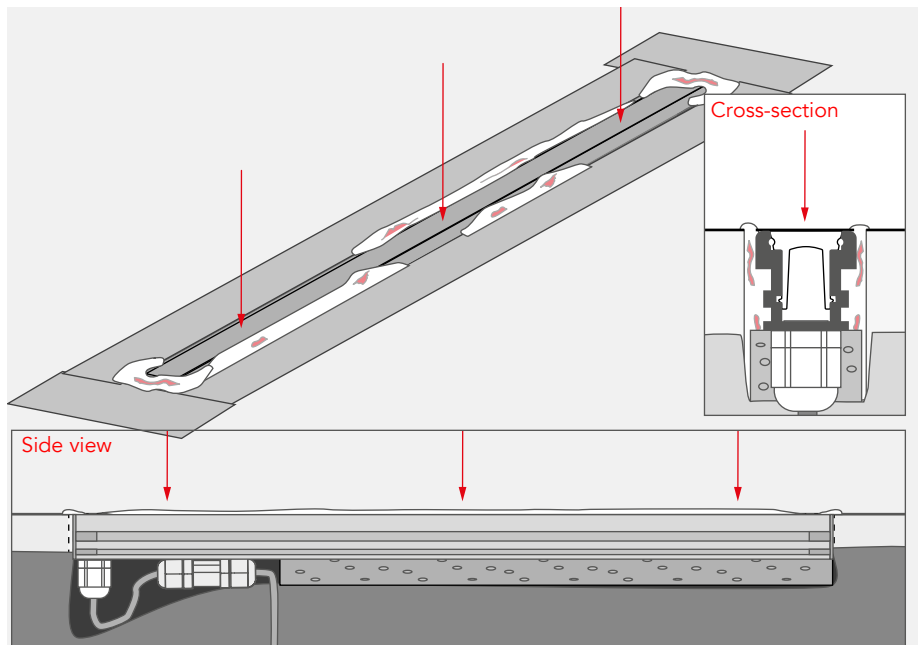5.2

## Mounting Instructions For Concrete (Continued)

### 3



- Secure the edges of the groove and the surface of the fixture with protective tape.

- Distribute grout to the walls of the groove.

### 4
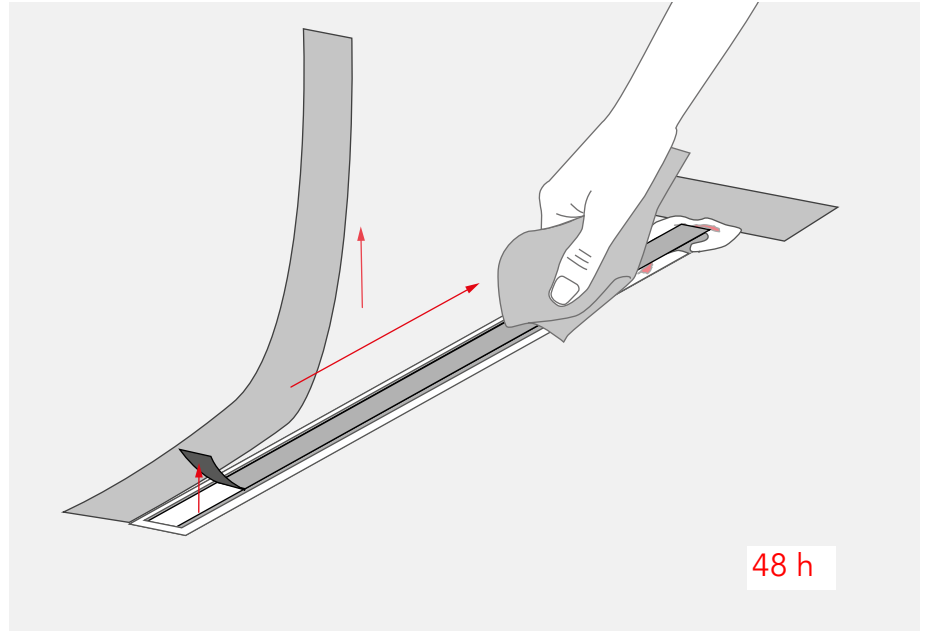


Cross-section

Side view

- Place the fixture in the groove.

- The excess grout should come to the surface from the sides of the fixture and at its ends.
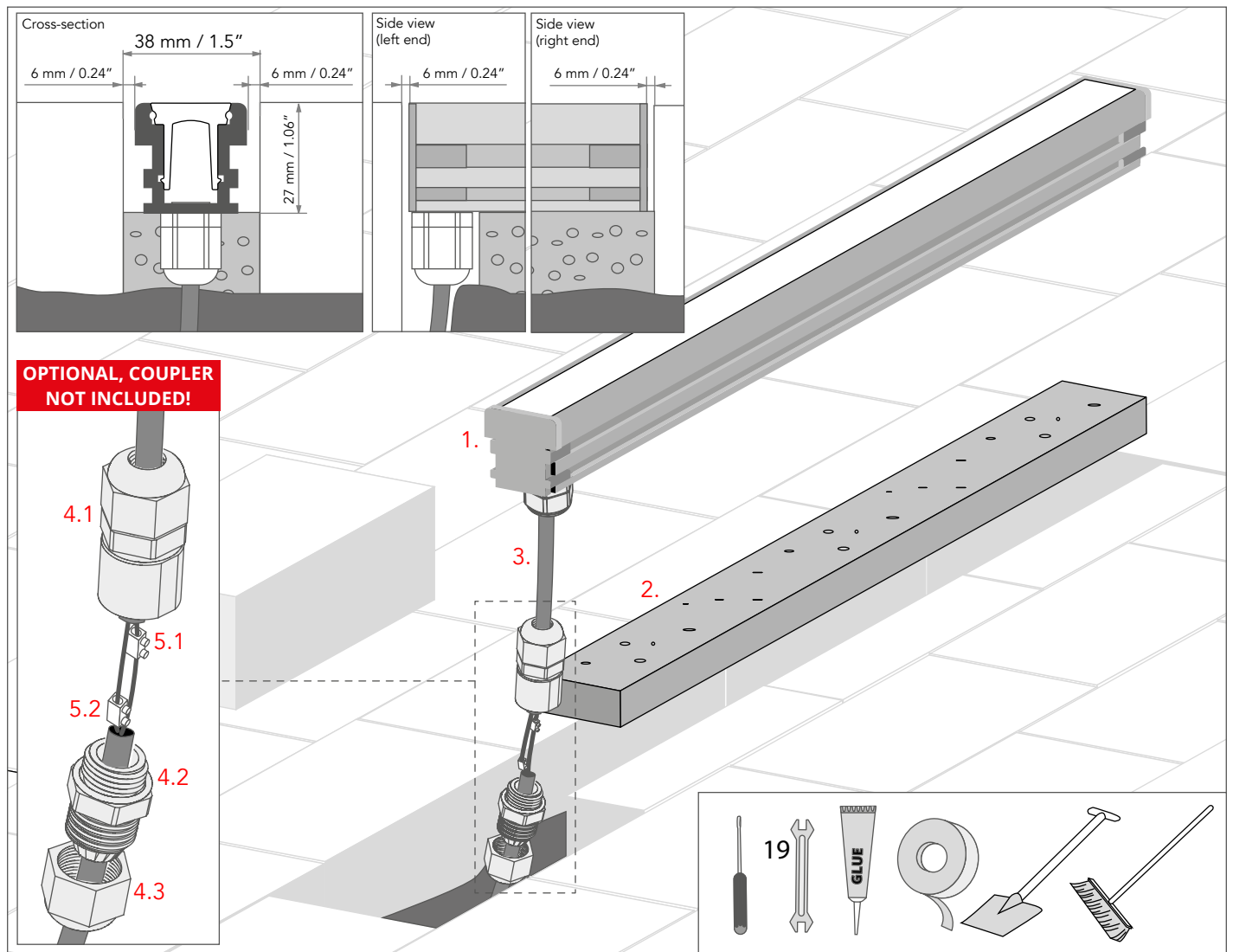
## Mounting Instructions For Concrete (Continued)

**3**

- Clean the surface of the fixture from the excess grout and remove protective tape.

- Wait 48 h until the grout dries.

48 h

# Mounting Instructions For Pavers



Cross-section
38 mm / 1.5″
6 mm / 0.24″
6 mm / 0.24″
27 mm / 1.06″

Side view (left end)
6 mm / 0.24″

Side view (right end)
6 mm / 0.24″

OPTIONAL, COUPLER NOT INCLUDED!

19
GLUE

1.  XCC-C-GND: Standard In Ground Channel
2.  Pad*
3.  Cable to power supply 24 V          *
4.1 Hermetic coupler (item 4.1)  *
4.2 Hermetic coupler (item 4.1)  *     OPTIONAL, COUPLER NOT INCLUDED!
4.3 Hermetic coupler (item 4.1)  *
5.1 Connector (item 5.1) *
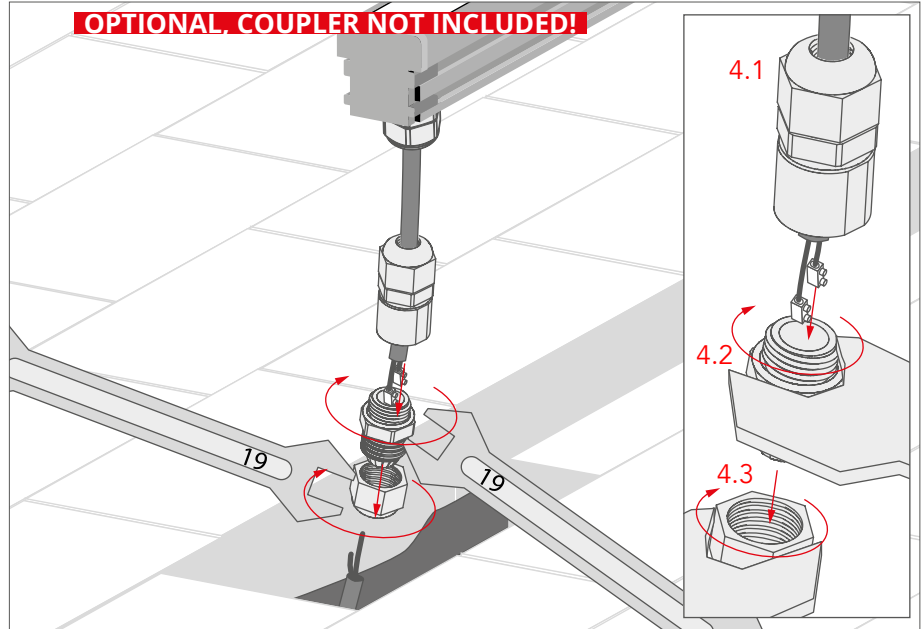5.2 Connector (item 5.2) *

# NOTE:

- All LED tapes must be connected to a 24 V power supply.
- Not all possible mounting procedures are presented here.
- Drawings of extrusions and accessories in these instructions are simplified and only approximate the actual shapes.
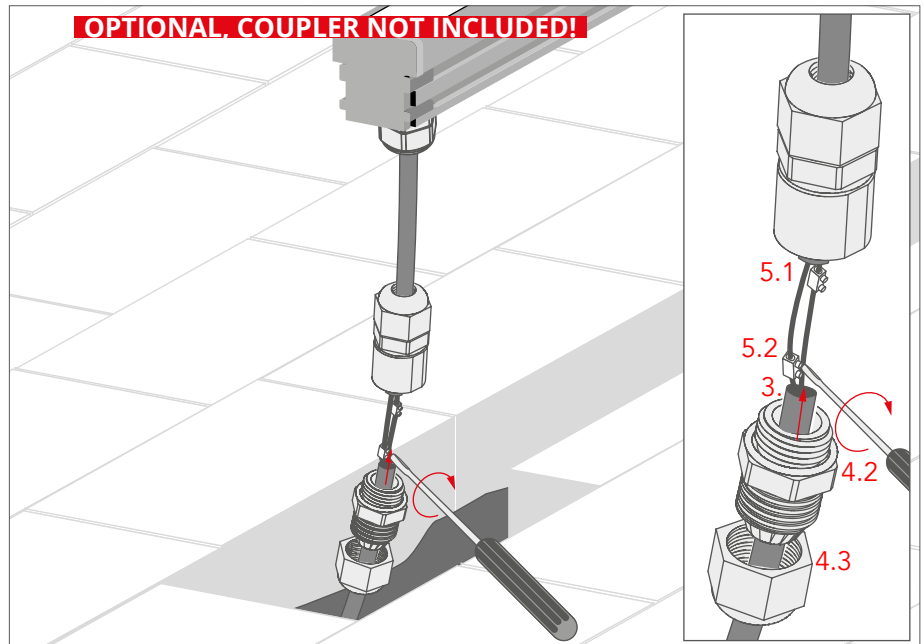
## Mounting Instructions For Pavers (Continued)

**3**

Detach items (4.2, 4.3) of the hermetic coupler from item (4.1).



**OPTIONAL, COUPLER NOT INCLUDED!**

---

**4**

Lead the cable (3) through items (4.2, 4.3) of the hermetic coupler and attach it to the cable from the fixrure, using both items (5.1, 5.2) of the connector.
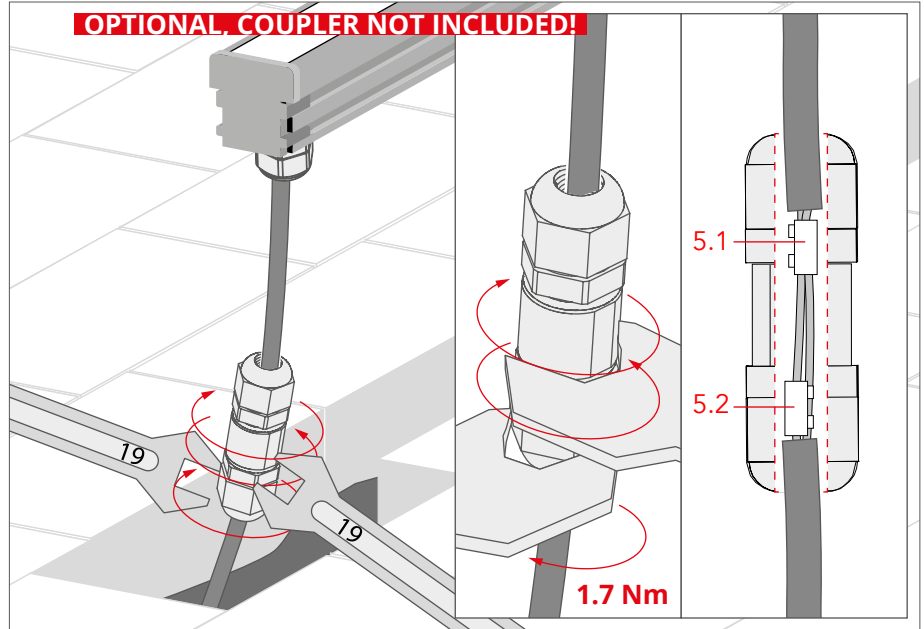


**OPTIONAL, COUPLER NOT INCLUDED!**

## Mounting Instructions For Pavers (Continued)

**3**
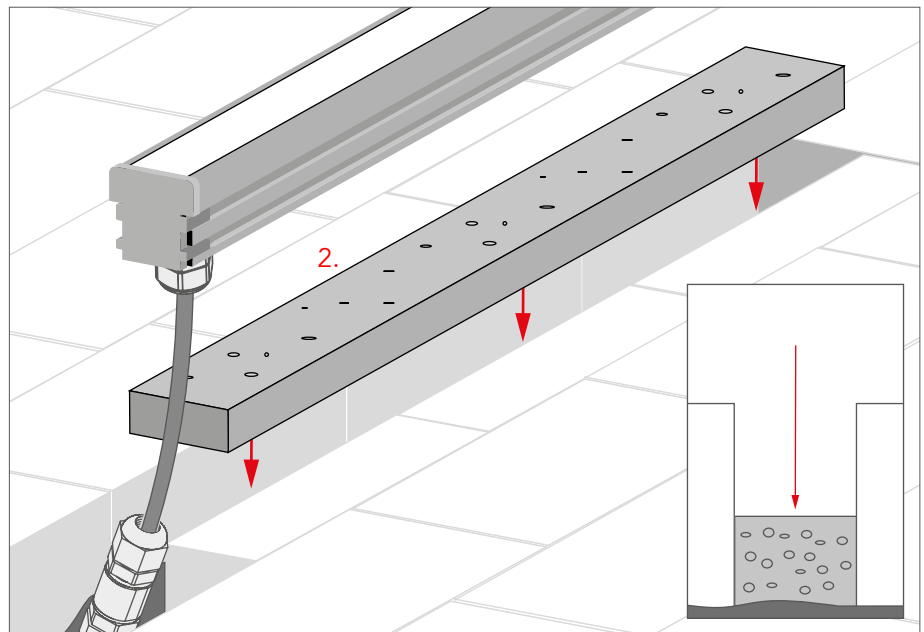
Screw together all the items of the coupler.

**NOTE!** When inserting cables into the coupler, make sure that both items (5.1, 5.2) of the coupler are not touching each other.

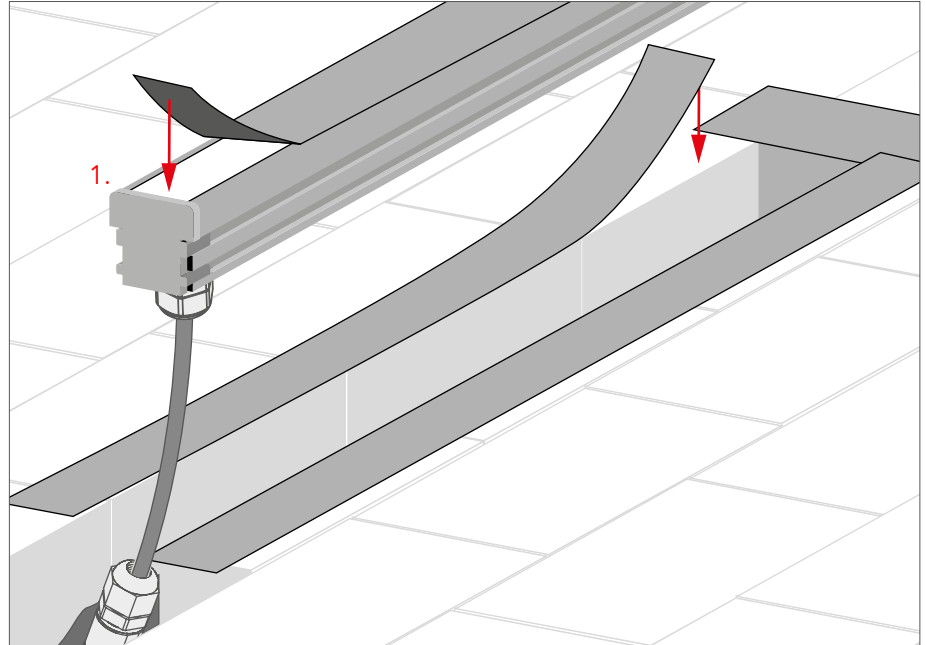**NOTE!** The items must be tightened with torsional power equal to 1.7 Nm.

**OPTIONAL, COUPLER NOT INCLUDED!**

5.1

5.2

19

19

**1.7 Nm**

**4**

Place the pad (2) in the groove in the pavers

2.

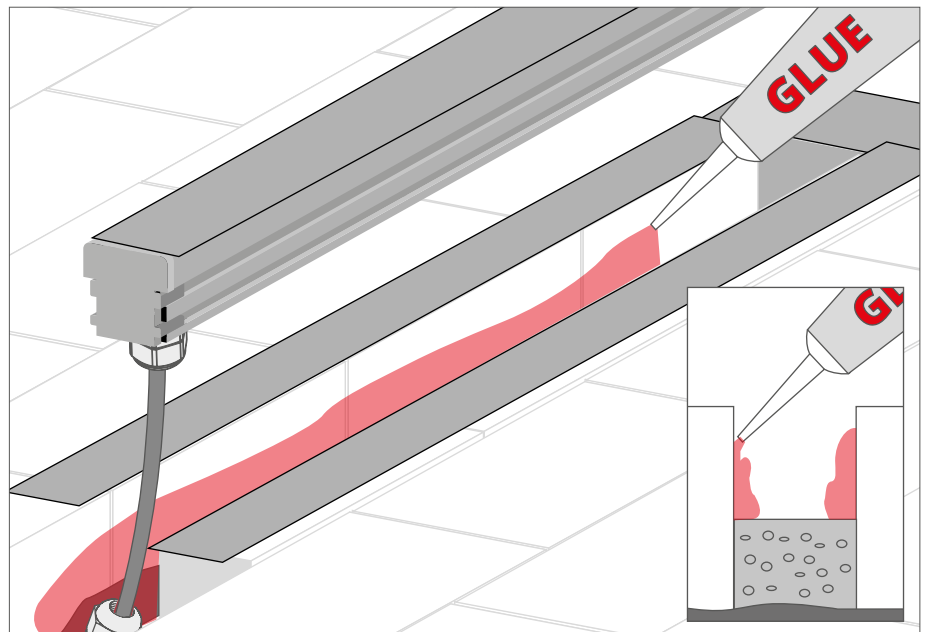## Mounting Instructions For Pavers (Continued)

**3**

Secure the edges of the groove and surface of the XCC-C-GND channel (1) with protective tape.
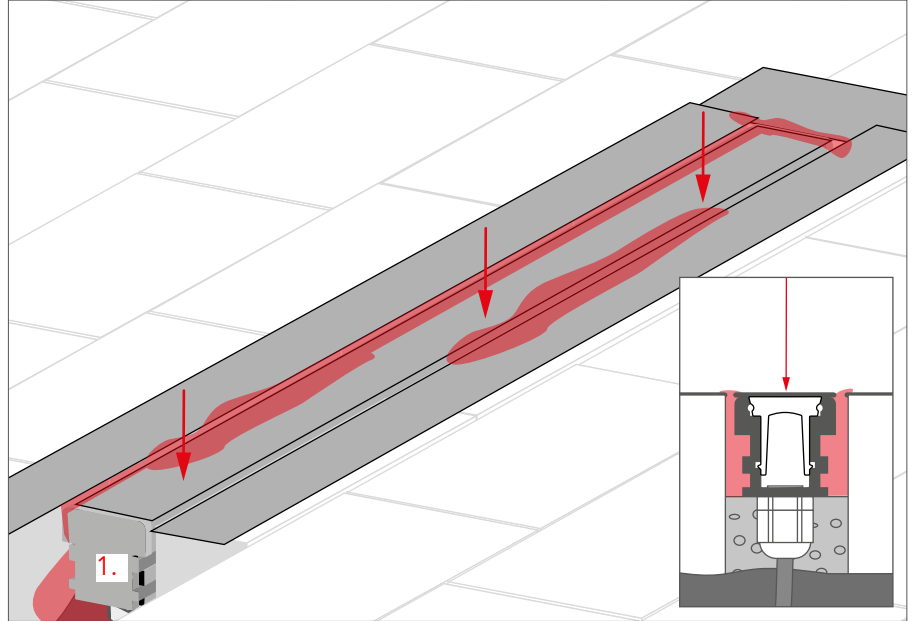


**4**

Distribute the adhesive along the walls of the groove.
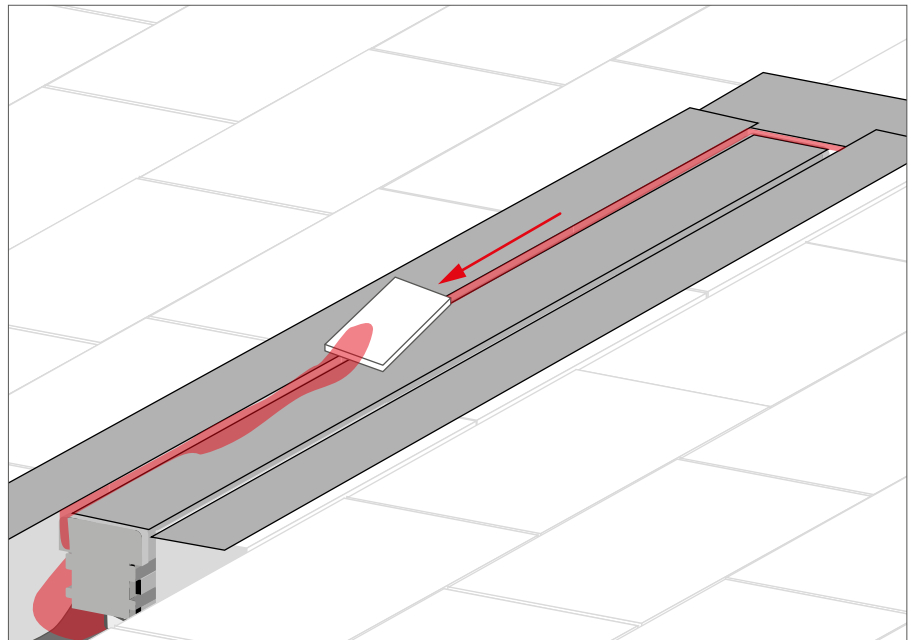
## Mounting Instructions For Pavers (Continued)

**3**

Place the fixture in the groove. The excess glue should come to the surface from the sides of the fixture and at its ends.
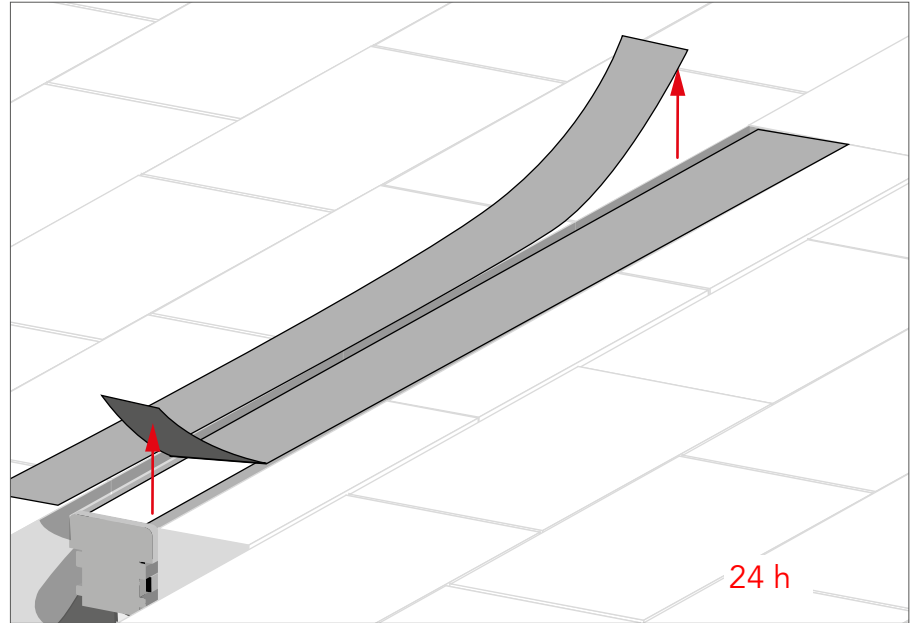
**4**

Remove the excess glue.
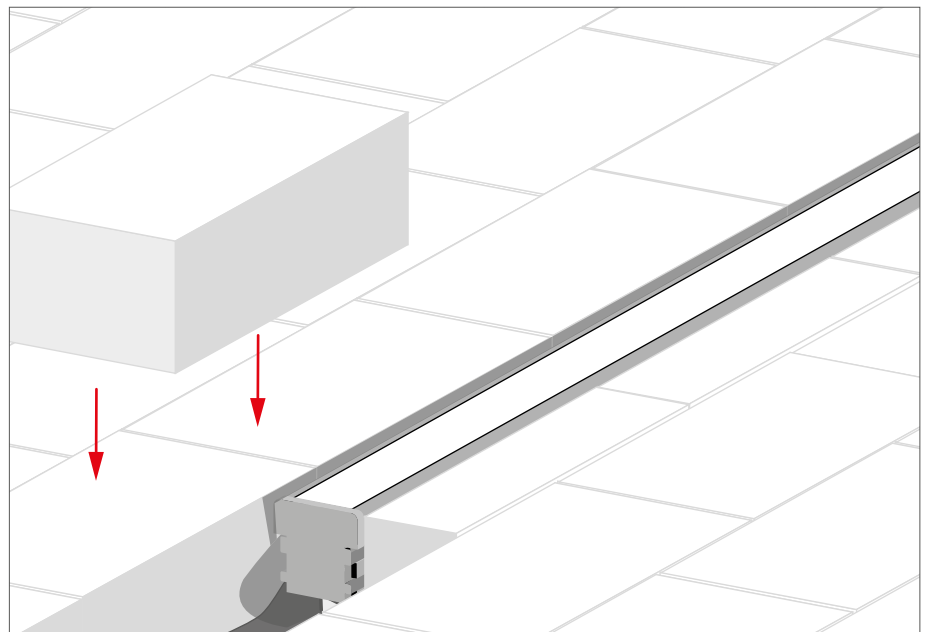
## Mounting Instructions For Pavers (Continued)

**3**

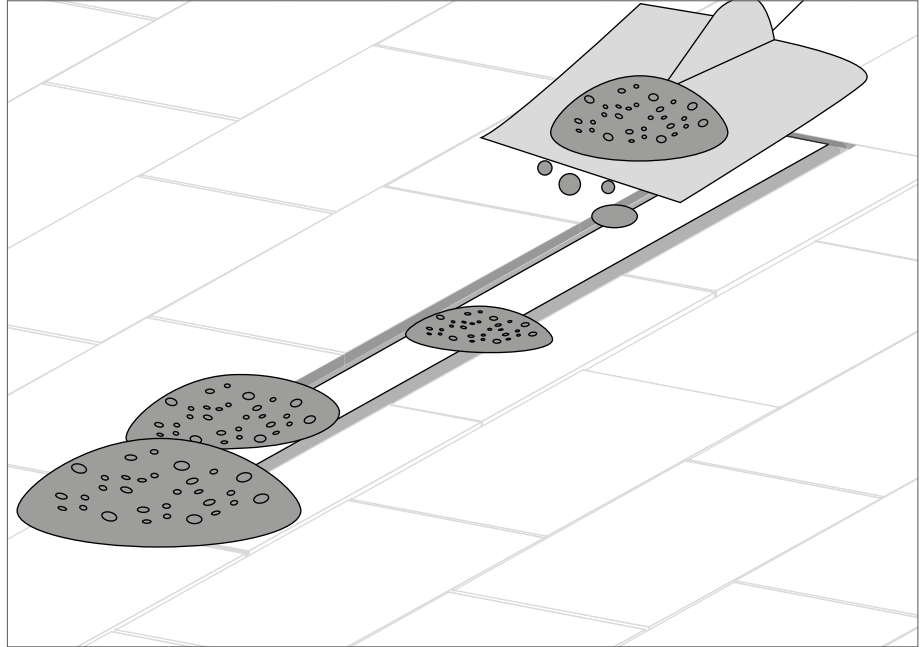Remove the protective tape and wait 24 h until the glue dries.

24 h

**4**

Insert the missing paving stones.

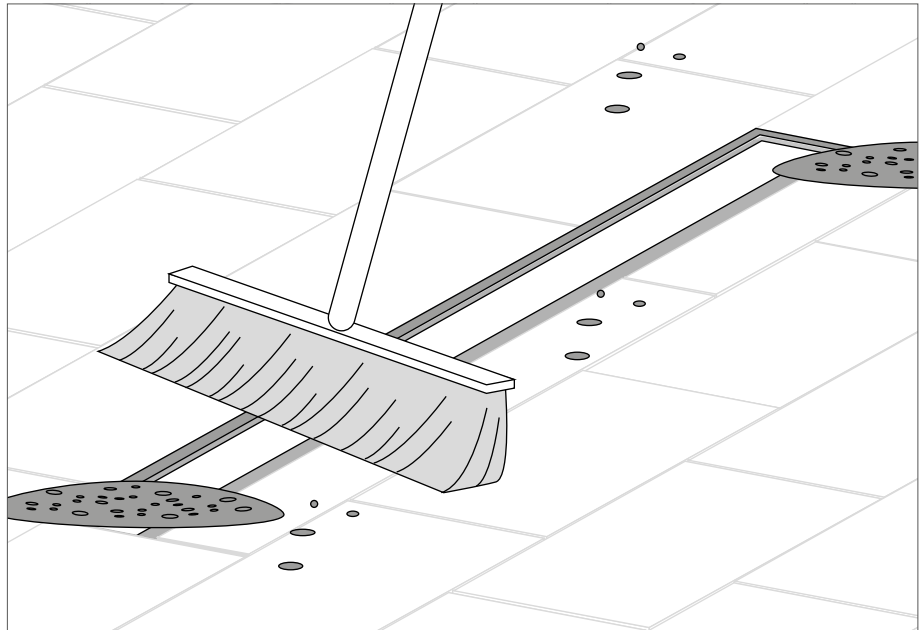## Mounting Instructions For Pavers (Continued)

**3**

Fill the remaining grooves between paving stones and the fixture with sand.

**4**

Clean the fixture from sand.

**Xicato Global Headquarters**

102 Cooper Court,
Los Gatos, CA 95032

**Contact Us**

Tel: +1 866 223 8395
info@xicato.com
www.xicato.com

XICATO®

For the most up-to-date data sheet, please visit xicato.com/support.