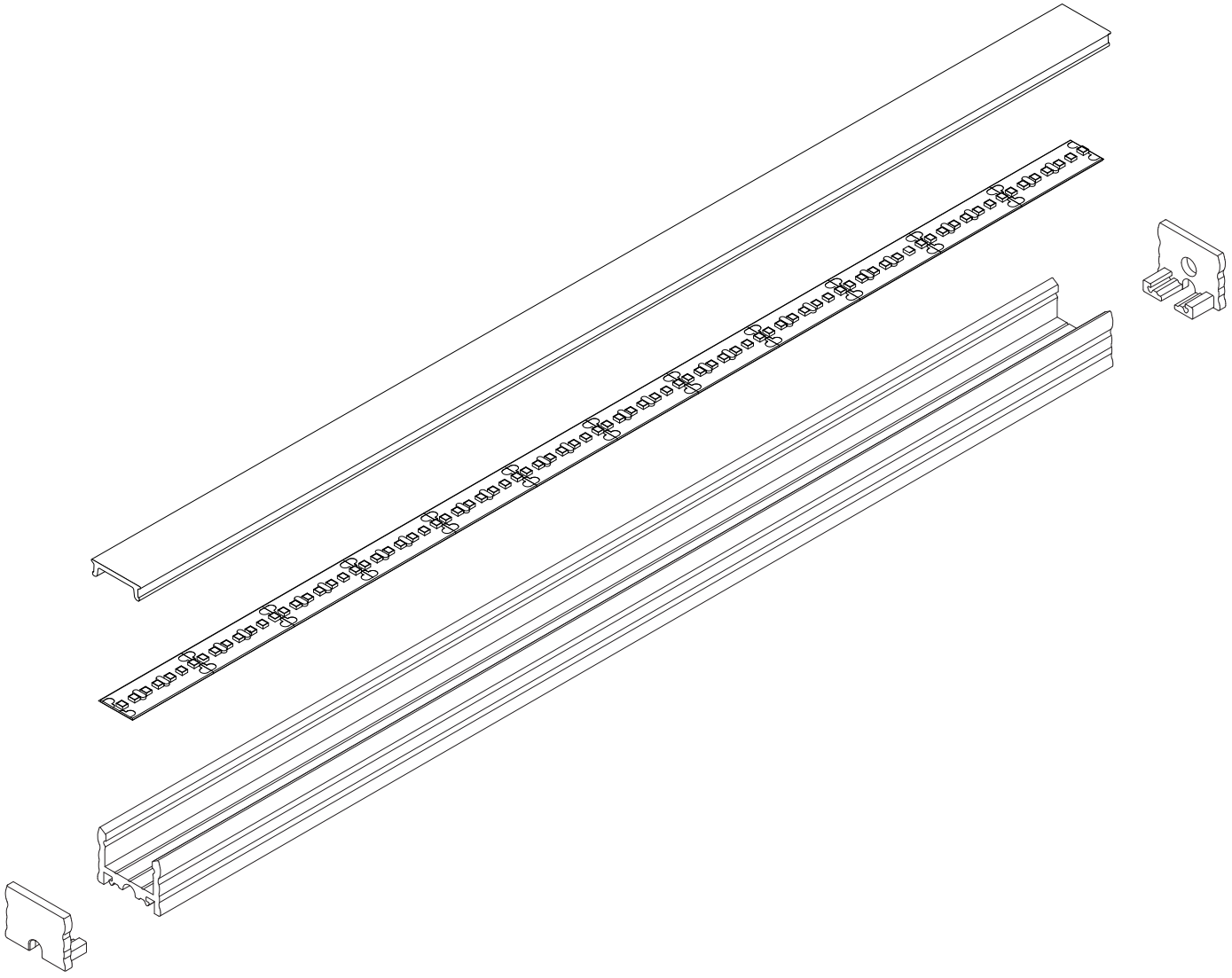
INSTALLATION INSTRUCTIONS

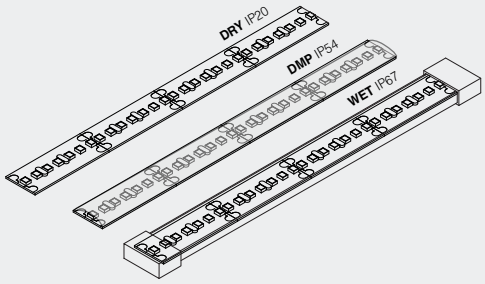
EXTRUSION - TALO



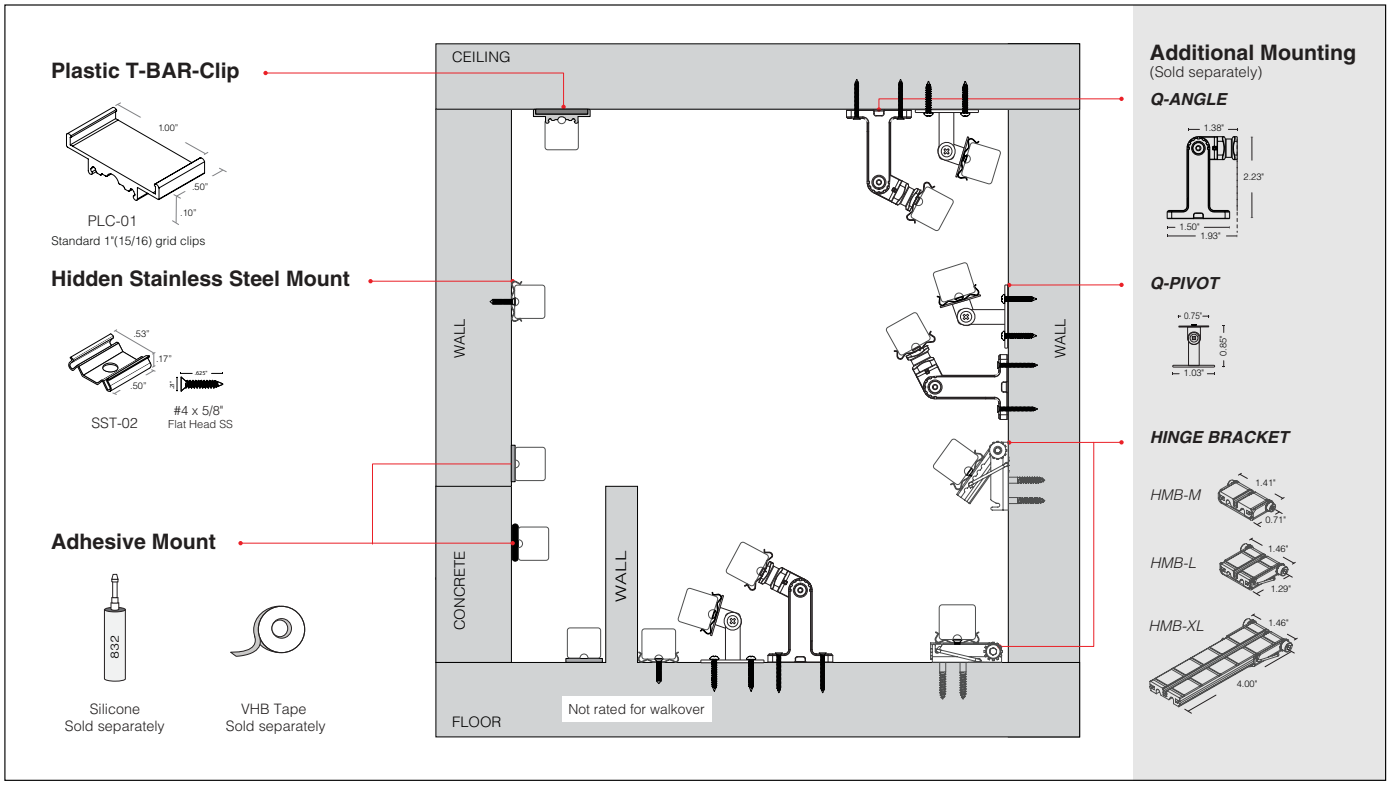
EXTRUSION - TALO

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician
- Always ensure power supply connection to electrical circuit is disconnected before working on it
- Follow diagram to connect Secondary Voltage wires to power supply. Refer to Q-Tran power supply instructions for wiring
- Use only with Class 2 power supply unit — Compatible for use with Q-Tran power supplies
- Surface mount
- Suitable for DRY, DAMP, and WET locations
- Suitable for installation in storage area of a clothes closet when assembled as a finished extrusion up to 4W/ft at Q-Tran facility
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale
- Once a wet strip or a damp strip is cut, it cannot be reconnected.

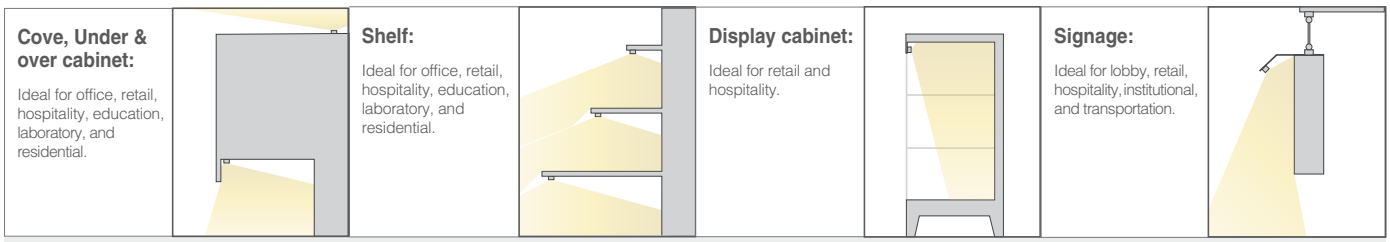


METHODS OF INSTALLATION



SURFACE MOUNTING METHOD

- VHB Adhesive Mount (page 9-10)
- Silicone Mount (page 11)
- Hidden Stainless Steel Clip Mount (page 12)
- Plastic T-BAR Clip Mount (page 13)



Cove, Under & over cabinet:
Ideal for office, retail, hospitality, education, laboratory, and residential.

Shelf:
Ideal for office, retail, hospitality, education, laboratory, and residential.

Display cabinet:
Ideal for retail and hospitality.

Signage:
Ideal for lobby, retail, hospitality, institutional, and transportation.

NOTES:

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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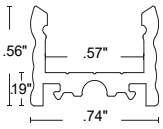
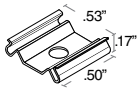
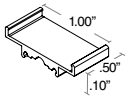
EXTRUSION - TALO

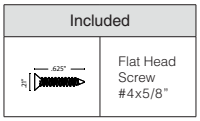


TALO Profile

CL	FR	PR	DF	ENC/CL	ENC/TL
Clear	Frosted	Polar	Diffused	Encapsulated in Clear	Encapsulated in Translucent

COMPONENTS & HARDWARE

HIDDEN STAINLESS STEEL CLIP	PLASTIC T-BAR CLIP
 SST-02	 PLC-01



Standard 1"(15/16) grid clips

ACCESSORIES SOLD SEPARATELY		
HINGE BRACKET; sold individually	Q-ANGLE; sold in pairs	Q-PIVOT; sold in pairs

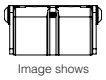
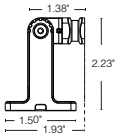


Image shows HMB-M

HMB-M
HMB-L
HMB-XL

Included
- 3/4" long mount screw
- 1/4" #4 clip mount screw

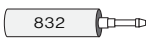
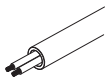
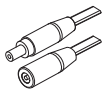
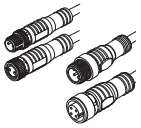


Q-ANGLE

Included
- 4 SS #6x1.25" Flat head wood screws
- 2 SS 4-40 Flat head clip screws
- 2 SS 6-32 Fillister screws

Q-PIVOT

Included
- SS #4-40x3/16 Flat head screws
- 2 #4x3/4 Pan Head screws

ADHESIVE SOLD SEPARATELY		CONNECTOR/WIRE - IN/OUT; Bare wire can be trimmed to length as needed.			
SILICONE	VHB TAPE; sold in 15' increments	BARE WIRE 24"	BARREL 6"	CONNECTOR 6"	CONNECTOR 24"
 DOWSIL 832	TAPE-VHB-IP20	 BW	 BRL	 CON6	CON24

NOTES:	
HIDDEN STAINLESS STEEL CLIP	PLASTIC T-BAR CLIP
• 2 clips provided for 4' or less; 4 clips provided for greater than 4'	• 2 Clips provided per first 12", 1 clip provided per additional foot.

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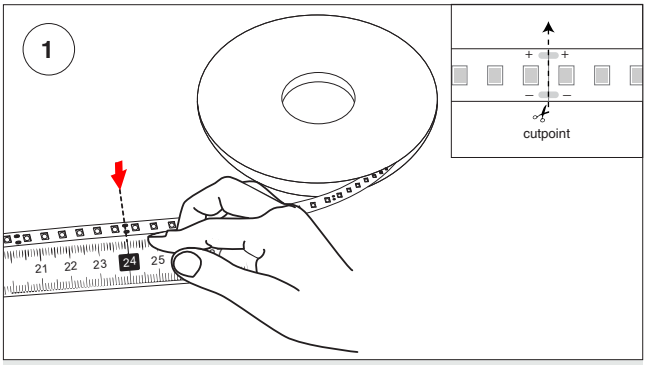
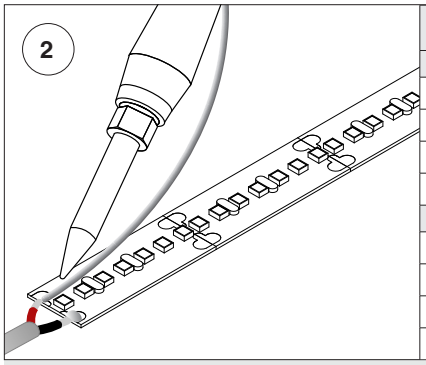
LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DRY IP20**

If LED wires are pre-soldered from the factory, skip to page 7.



Measure and cut LED strip to desired length with scissors along the cut point.

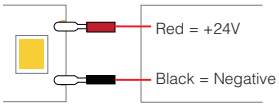


ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

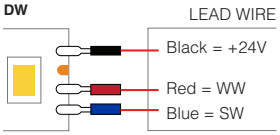
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

NOTE: *Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.*

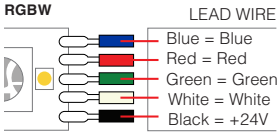
SW, SC, SD-SW, SW-HE, SW-HE+



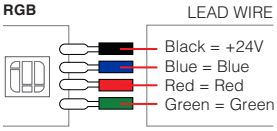
DW



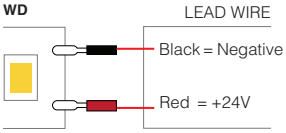
RGBW



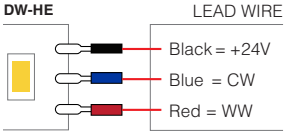
RGB



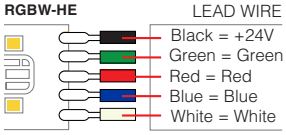
WD



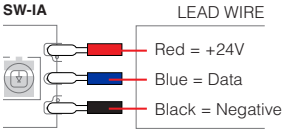
DW-HE



RGBW-HE



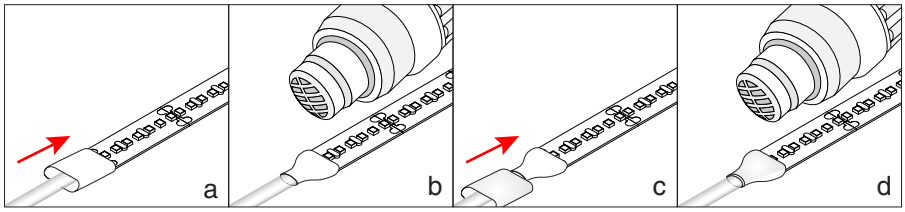
SW-IA



3

NOTE:

Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place 1st sleeve (1/2" Shrink Tube) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube) on lead wire.

d: Shrink the tube with heat gun.

NOTES:

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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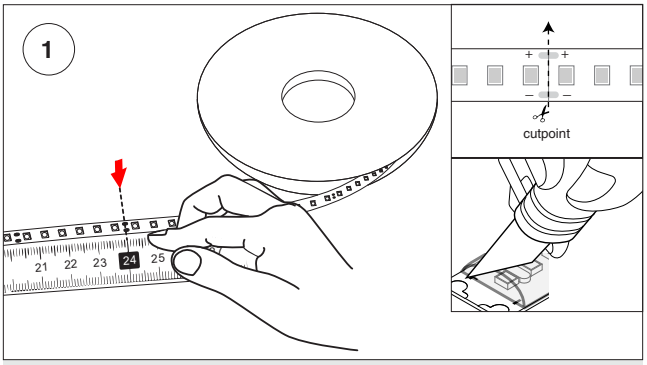
EXTRUSION - TALO

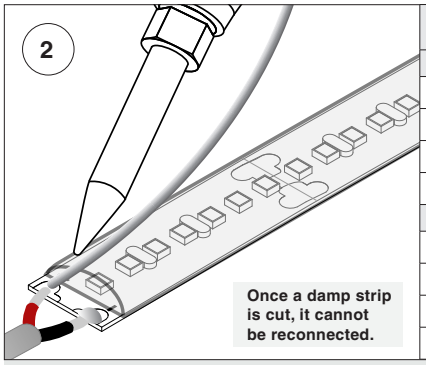
LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

If LED wires are pre-soldered from the factory, skip to page 7.



Measure and cut LED strip to desired length with scissors along the cut point.

- Carefully peel polyurethane back to expose the solder pads.

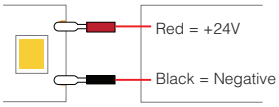


ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

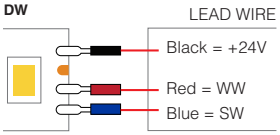
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

NOTE: *Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.*

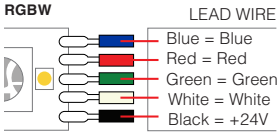
SW, SC, SD-SW, SW-HE, SW-HE+



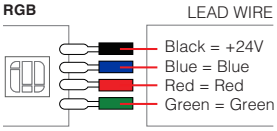
DW



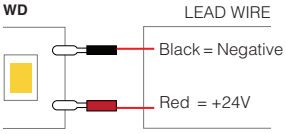
RGBW



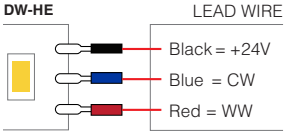
RGB



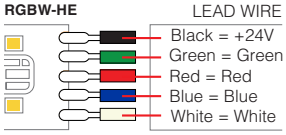
WD



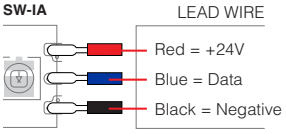
DW-HE



RGBW-HE



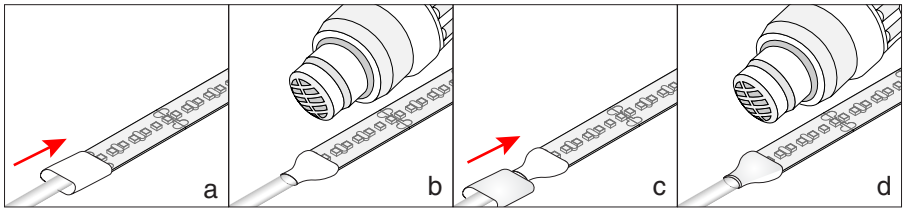
SW-IA



3

NOTE:

Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place 1st sleeve (1/2" Shrink Tube) on lead wire.

b: Shrink the tube with heat gun.

c: Place 2nd sleeve (1" Shrink Tube) on lead wire.

d: Shrink the tube with heat gun.

NOTES:

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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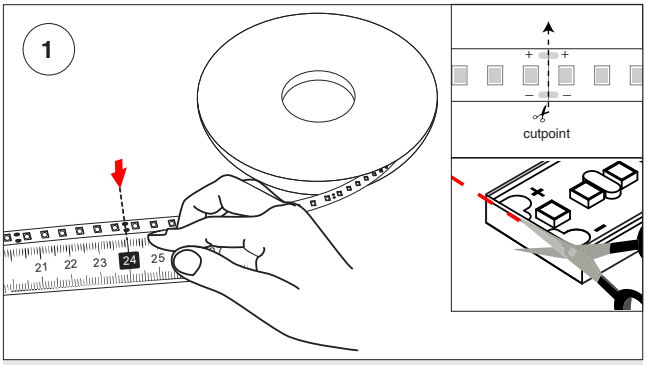
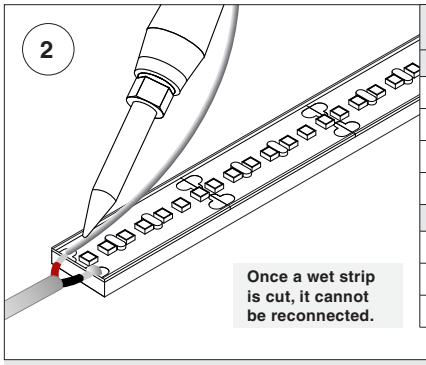
EXTRUSION - TALO

LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **WET IP67**

If LED wires are pre-soldered from the factory, skip to page 7.



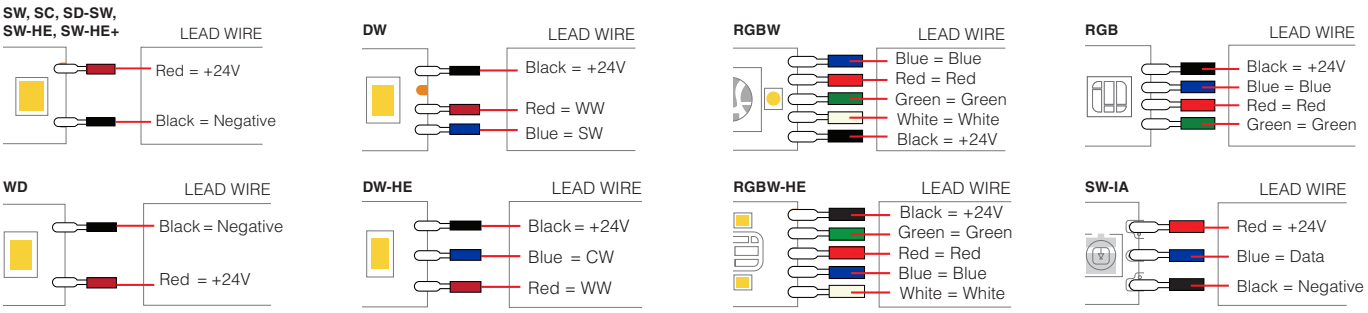
Measure and cut LED strip to desired length with scissors along the cut point.



ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

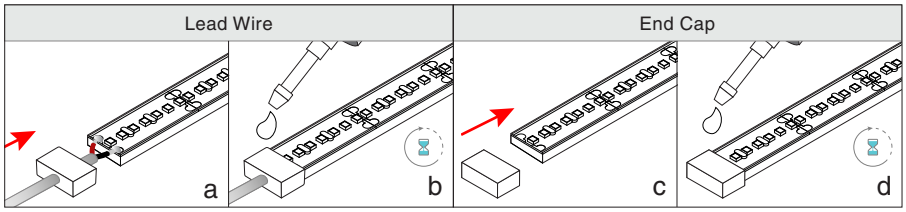
NOTE: *Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.*



3

NOTE:

Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



ONCE ALL CONNECTIONS ARE FUNCTIONING PROPERLY, DISCONNECT POWER AND BEGIN HEAT SHRINKING INSTRUCTIONS BELOW:

a: Place lead wire cap over wire

b: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

c: Place end cap over the end of LED

d: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

NOTES:

- *Avoid bending in sharp angles which may damage the LED.*
- *Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.*
- *Diagrams for representation only and not to scale.*

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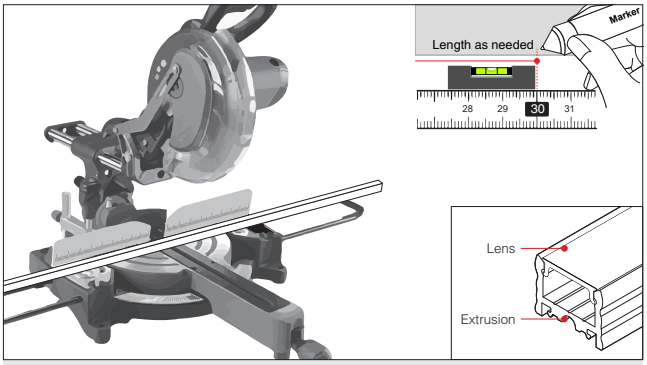
EXTRUSION - TALO

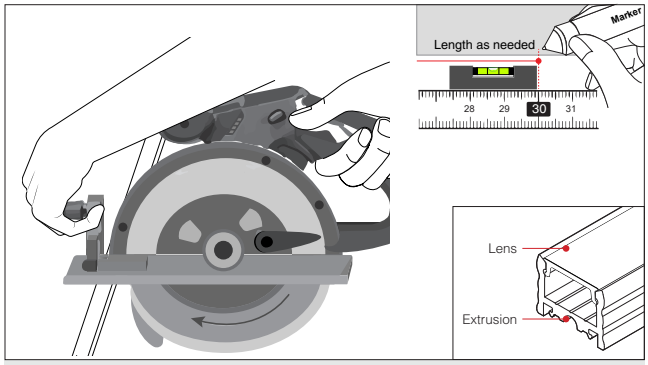
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

Q-Tran strongly recommends cutting the extrusion and lens together to achieve a clean cut.



To achieve corners or angles, measure the LED extrusion to desired length and cut with a miter saw.

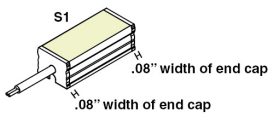
OR



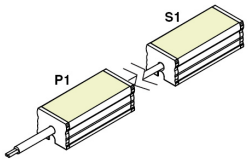
For straight runs, measure LED extrusion to desired length and cut it with a circular saw.

NOTE: *Using the proper blade for aluminum, cut to the desired length. Recommend using a 10 in.x 80 tooth medium aluminum saw blade.*

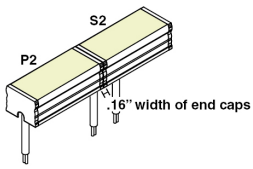
CONTINUOUS WIRING CONFIGURATION OPTIONS



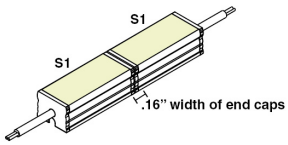
Single End Feed



Non-Continuous End Feed



Continuous Bottom Feed



Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting extrusion.

NOTE: *Additional wire methods include:*
S1 & S2: Connector/Wire Input only
P1 & P2: Connector/Wire Input and Output

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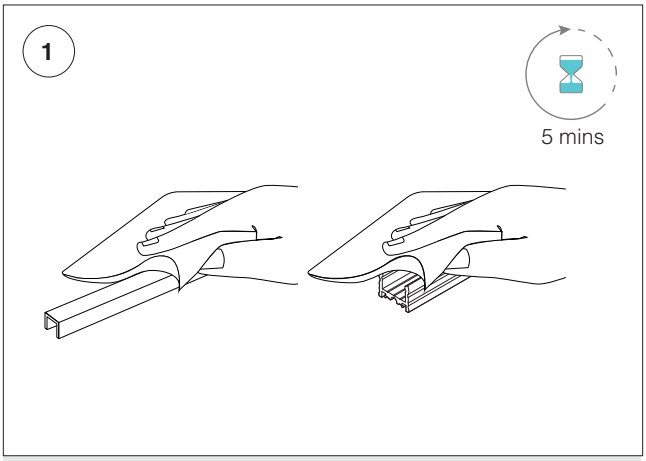
EXTRUSION - TALO

LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

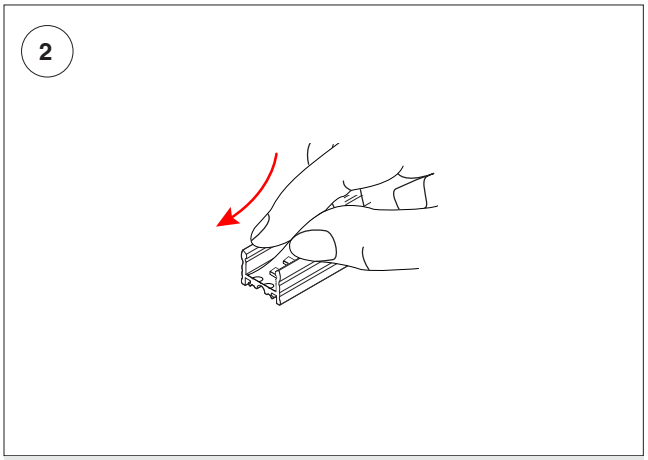
STRIP IN EXTRUSION

1



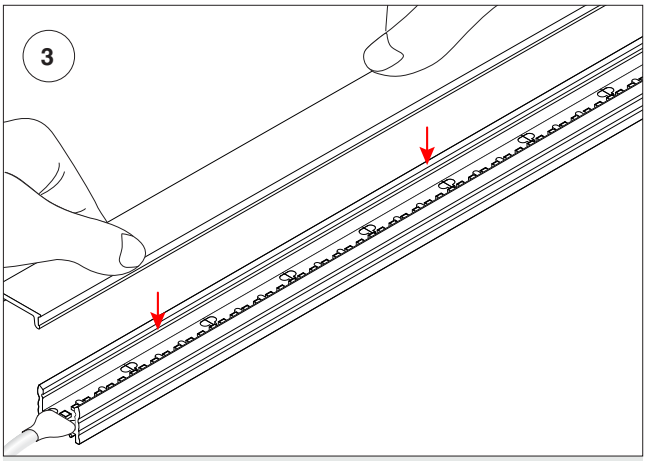
Using a 50/50 alcohol mix, thoroughly clean surface area of the extrusion. Allow 5 minutes to dry.

2



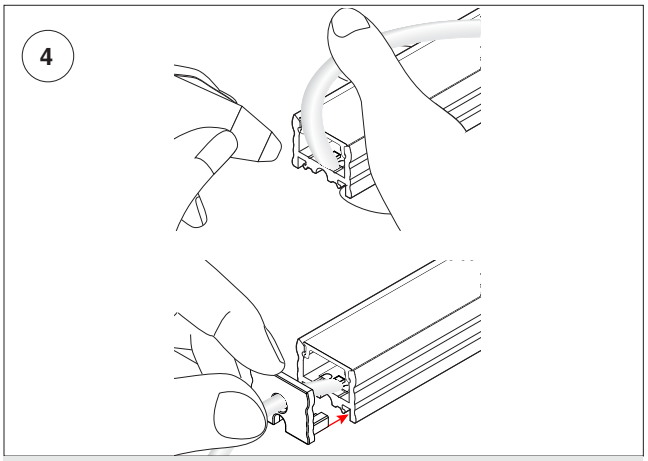
Peel back 0.5" of the VHB tape's protective film on one end of LED and use firm pressure to adhere it to the extrusion, avoiding air bubbles. Continue peeling the film and adhering the strip in small sections until the entire length is installed.

3



Flat Lenses: Apply uniform pressure until the extrusion and lens snap securely together.

4



Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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EXTRUSION - TALO

SURFACE MOUNTING METHOD

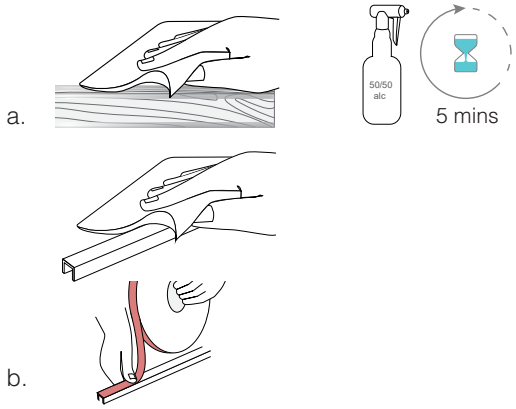
SURFACE PREPARATION

1

Temperature and environmental concerns:

- Ideal application environment is 70-100°F in 50% humidity or less.
- Minimum application temperature: 50°F
- This temperature and humidity should be maintained for 72 hours after application for maximum bond strength.

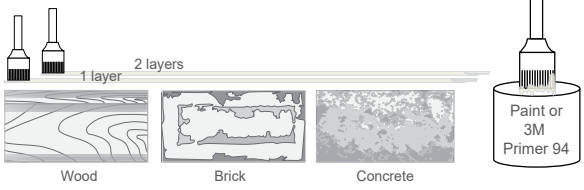
2



a. Using a 50/50 alcohol mix, thoroughly clean the backside of the extrusion and the surface area where extrusion will be installed. Allow 5 minutes to dry.

b. Peel back 0.5" of the VHB tape's protective film on one end and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the tape in small sections until the entire length is installed.

3



For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

MATERIALS	SUGGESTED EPOXIES
Concrete, Stone, Cinderblock, Metal, and Brick	Loctite Metal and Concrete Two-Part Epoxy
ABS, Fiberglass, Plastic, and PVC	Loctite Plastic Two-Part Epoxy
Tile, Wood, Ceramic, Glass, or Metal	Loctite Clear Two-Part Epoxy
All Purpose	Strong Stik

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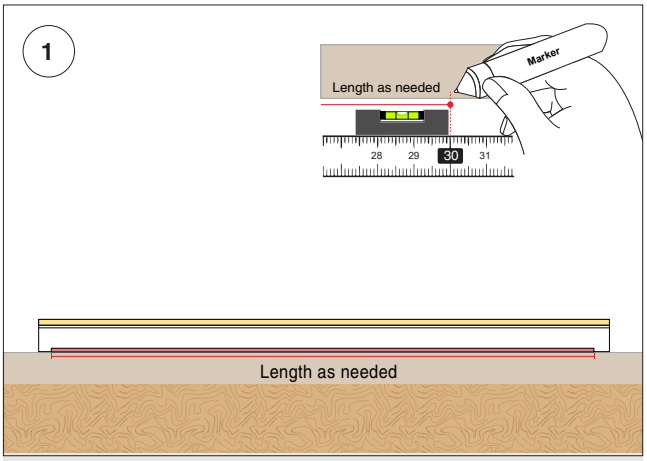
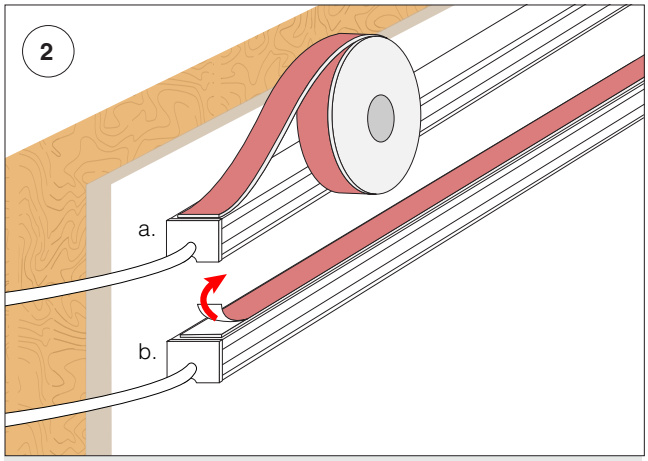
EXTRUSION - TALO

SURFACE MOUNTING METHOD: **VHB ADHESIVE**

BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength. (Page 9)

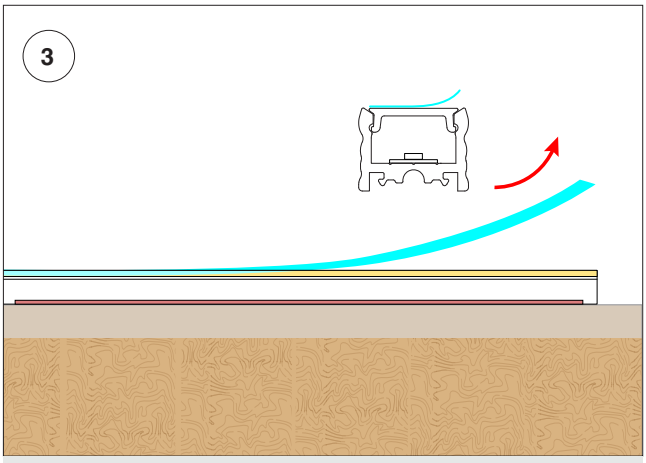


Determine the TALO extrusion(s) location and positioning on desired surface before adhering extrusion to surface. Make any necessary reference markings to indicate extrusion placement.



a. To adhere the VHB adhesive, peel the white film back while evenly applying the tape to the mounting side of the extrusion. The red side should be visible.

b. Remove the red film and position extrusion in place according to your previous reference marking(s).



Remove protective film from the surface of the extrusion's lens.

NOTES: *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on* page 9 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

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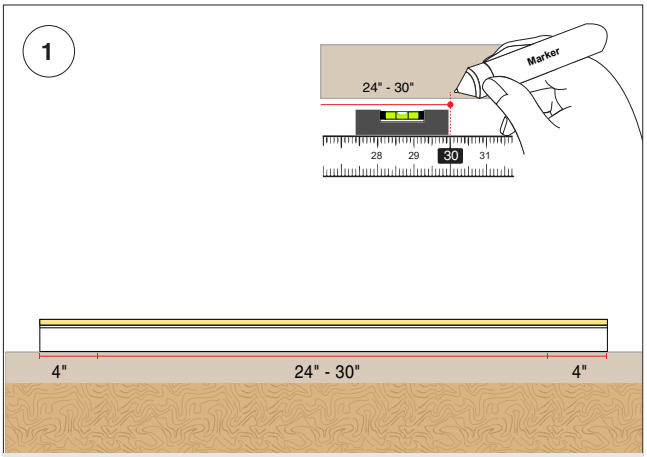
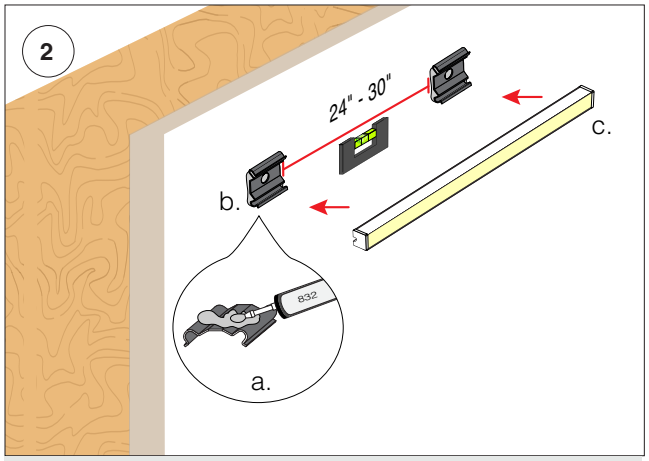
EXTRUSION - TALO

SURFACE MOUNTING METHOD: **SILICONE**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'



Determine the TALO extrusion(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".

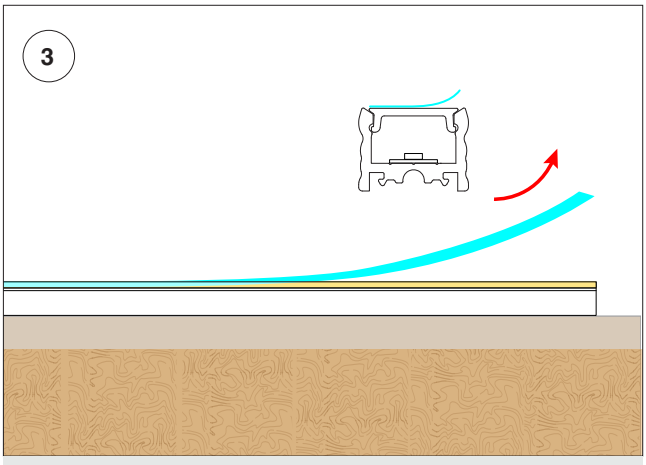


a. Firmly press the silicone-coated clips on the marked reference points.

b. Wait for silicone adhesive to cure completely before snapping extrusion into place.

c. Snap extrusion onto clips.

NOTE: *Cure time is dependent on the type of silicone adhesive used. Refer to silicone product manufacturer for accurate drying time.*



Remove protective film from the surface of the extrusion's lens.

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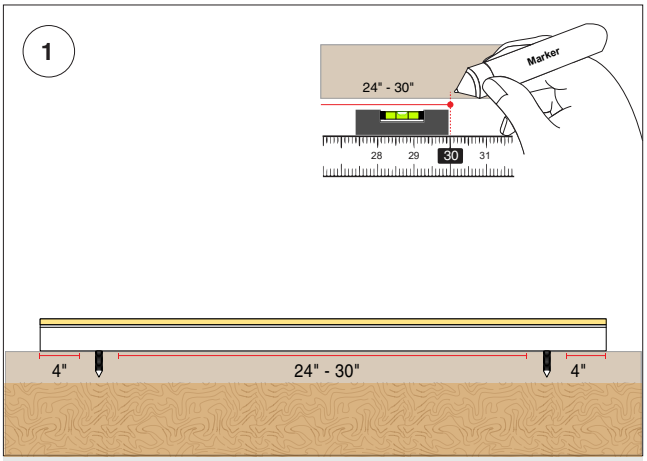
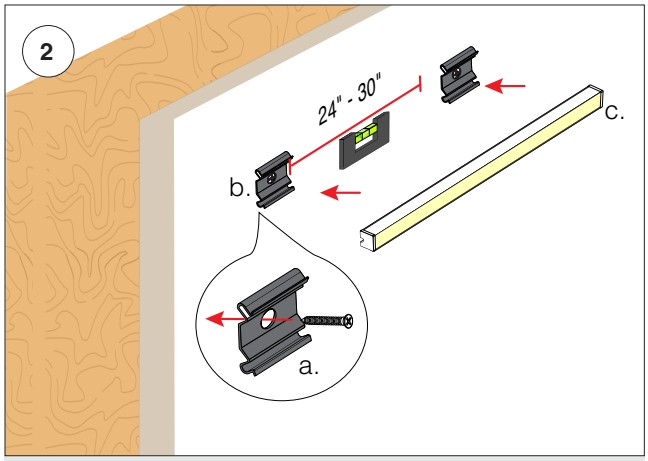
EXTRUSION - TALO

SURFACE MOUNTING METHOD: **HIDDEN STAINLESS STEEL CLIPS**

- 2 clips provided for 4' or less; 4 clips provided for greater than 4'

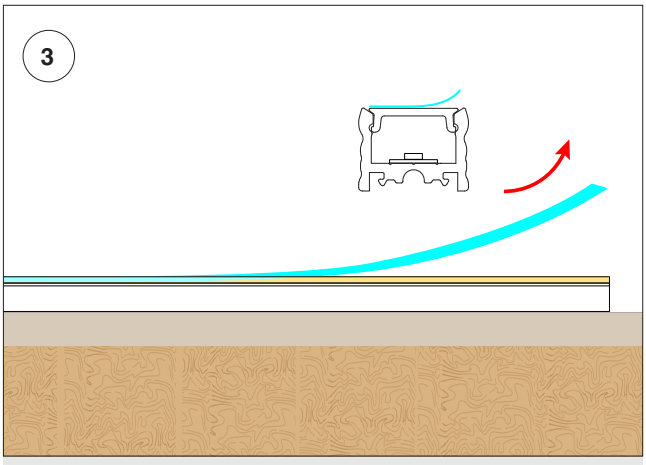


Determine the TALO extrusion(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 24" - 30".



a. Secure clips using the #4 flat head hardware provided.
b. Ensure the screw head is flush with the clip's base.
c. Snap extrusion onto clips.

NOTE: *Flat head screw type is dependent on surface/application material. Alternative flat head screws may be required. Refer to the surface material manufacturer for suggested screw type.*



Remove protective film from the surface of the extrusion's lens.

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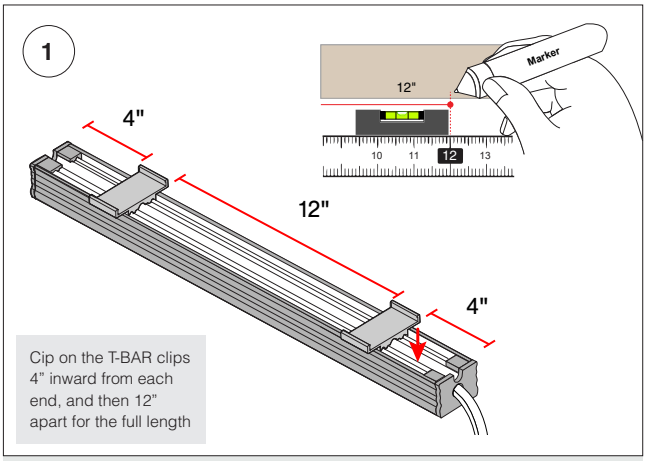
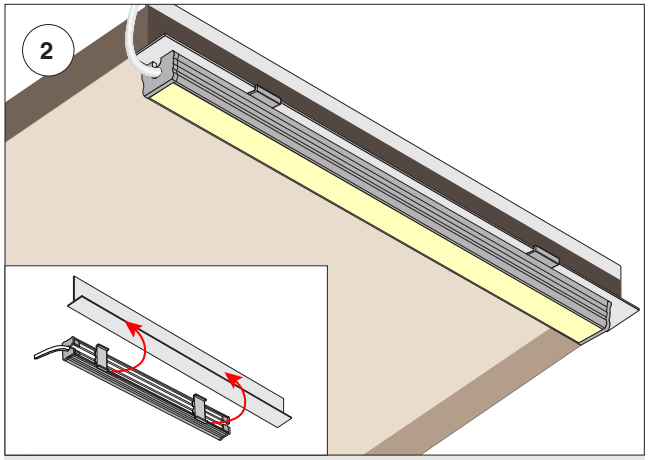
EXTRUSION - TALO

SURFACE MOUNTING METHOD: **PLASTIC T-BAR CLIPS**

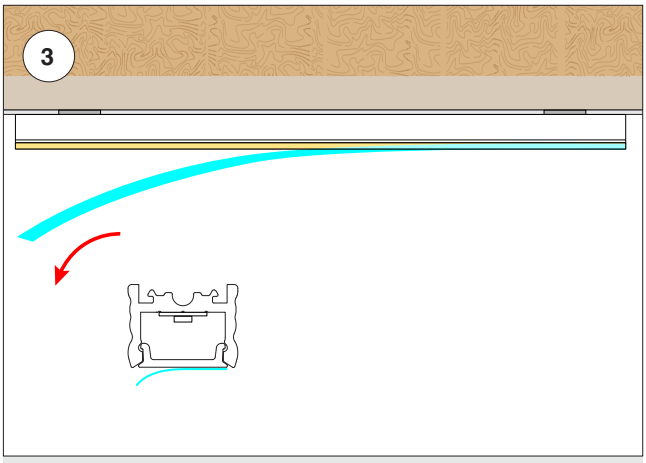
- 2 Clips provided per first 12", 1 clip provided per additional foot.



Determine the TALO extrusion(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".



Snap extrusion onto T-BAR.



Remove protective film from the surface of the extrusion's lens.

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