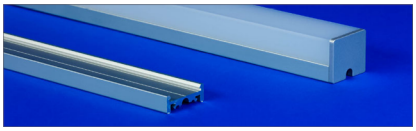
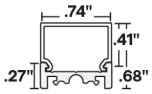
TRE3

Field Assembled Extrusion - Surface

SEE THIS EXTRUSION AS A FACTORY BUILT FIXTURE ▶





- An impressive solution for grid ceiling and surface mount applications because of its unique three-sided lens
- TRE3 has two engineered mounting clips: a surface mount hidden stainless steel clip and a ceiling mount plastic T-Bar clip
- Available in lengths up to 98.43”

1 PRODUCT	2 FINISH	3 MOUNTING	4 LENS	5 WIRE INPUT/OUTPUT	6 EXTRUSION LENGTH (IN)
TRE3			DF	NI	

Sample Part Number: **TRE3-ST-HSS-DF-NI-48"**

1 PRODUCT

TRE3

2 FINISH

ST Satin
CU Custom Color

Custom finishes require a longer lead time, consult factory

3 MOUNTING

HSS Hidden Stainless Steel Clip
TBC-01 9/16" Flat or Tegular TB-Grid
TBC-02 15/16" Flat or Tegular TB-Grid

Refer to following pages for mounting clip option details and provided quantities.

4 LENS

DF Diffused

For representation of LED visibility, see Diode Visibility section on following pages.
For beam angles, see Photometric Performance section on following pages.

5 WIRE INPUT/OUTPUT

NI Not Installed

6 EXTRUSION LENGTH (IN)

1” increments from 1” - 98.43”
Tolerance +0.0”/-0.5”

COMPATIBLE LED STRIPS

	STATIC WHITE (SW)	STATIC WHITE STANDARD (SD-SW)	STATIC WHITE HIGH EFFICACY (SW-HE)	STATIC WHITE HIGH EFFICACY PLUS (SW-HE+)	STATIC WHITE EXTREME TEMP (SW-XT)	SHIELD STATIC WHITE (SHLD-SW)	SHIELD STATIC WHITE HIGH EFFICACY (SHLD-SW-HE)	DYNAMIC WHITE HIGH EFFICACY (DW-HE)	WARM DIM (WD)	STATIC COLOR (SC)	RGB	RGBW	RGBW HIGH EFFICACY (RGBW-HE)
DRY	✓ W/FT: 1.5, 3.0, 4.0, 5.0	✓ W/FT: 1.0, 2.0, 4.0, 6.0	✓ W/FT: 1.5, 3.0, 6.0, 9.0	✓ W/FT: 3.0, 6.0		✓ W/FT: 1.5, 3.0, 5.0	✓ W/FT: 1.5, 3.0, 6.0	✓ W/FT: 1.5, 2.5, 4.0	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ W/FT: 6.0	✓ W/FT: 6.0	✓ W/FT: 4.0, 8.0
DMP	✓ W/FT: 1.5, 3.0, 4.0, 5.0		✓ W/FT: 1.5, 3.0, 6.0					✓ W/FT: 1.5, 2.5	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ W/FT: 6.0	✓ W/FT: 6.0	✓ W/FT: 4.0
ENC													
WET	✓ W/FT: 1.5, 3.0, 4.0, 5.0	✓ W/FT: 1.0, 2.0, 4.0			✓ W/FT: 3.0	✓ W/FT: 1.5, 3.0, 5.0	✓ W/FT: 1.5, 3.0, 6.0			✓ W/FT: 5.0			

Field modifications must comply with QTL’s installation methods otherwise warranty is null & void | Ceiling grid mount | Three-sided lens | Painted end caps match the extrusion finish and have a white painted interior. Satin end caps utilize a metallic paint.

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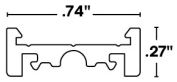
Specification subject to change. Rev-03-17-26

TRE3

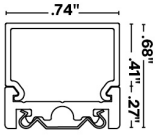
Field Assembled Extrusion - Surface

SEE THIS EXTRUSION AS A FACTORY BUILT FIXTURE ▶

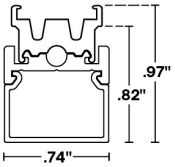
1 PRODUCT - DIMENSIONS



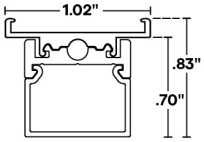
Profile



Profile with hidden stainless steel mounting clip



Profile with plastic T-Bar mounting clip

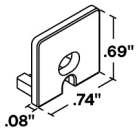


Profile with plastic T-Bar mounting clip

END CAPS

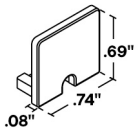
One pair of end caps is provided with each length of extrusion ordered.

Flat end caps



Feed

To order separately, use TRE3-EC



No Feed

To order separately, use TRE3-EC

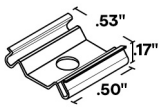
2 FINISH

Satin

Custom finishes require a longer lead time, consult factory

3 MOUNTING

HSS



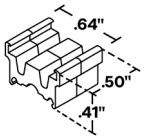
Hidden Stainless Steel Clip

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

To order separately use SST-02

Each clip comes with a #4 x 5/8" Flat Head SS

TBC-01



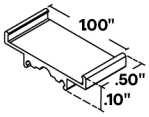
Plastic T-Bar Clip

Use on 9/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length

To order separately use TBC-01

TBC-02



Plastic T-Bar Clip

Use on 15/16" Flat or Tegular Drop Ceiling

2 clips provided for first 12"; 1 clip provided for each additional 12" or less length

To order separately use TBC-02

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TRE3

Field Assembled Extrusion - Surface

SEE THIS EXTRUSION AS A FACTORY BUILT FIXTURE ▶

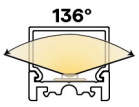
4 DIODE VISIBILITY

DF - Diffused lens

PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see factory built fixture photometric data.

DF



Diffused 136°

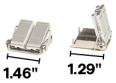
COMPATIBLE ACCESSORIES

HINGE - HMB-M



Adjustable mounting bracket - Medium

HINGE - HMB-L



Adjustable mounting bracket - Large

HINGE - HMB-XL



Adjustable mounting bracket - XLarge

Q-PIVOT



Small mounting accessory

Q-ANGLE



Adjustable mounting accessory

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TRE3 LUMEN MULTIPLIER

LUMEN MULTIPLIER FORMULA

Bare LED Lumens x Extrusion Finish/Lens Value = Delivered Lumens

Example: **172 lm/ft x 0.76 = 130 lm/ft**

SW24/1.5 at 3000K x TRE3 Extrusion in Satin with DF Lens

Diode free or near Diode free

SW			
LENS	Finish		
	Satin	Black	Bronze
	(ST)	(BK)	(BZ)
DF	0.76	N/A	N/A

SW-HE			
LENS	Finish		
	Satin	Black	Bronze
	(ST)	(BK)	(BZ)
DF	0.73	N/A	N/A

Data is subject to change | All data has +/- 5% tolerance

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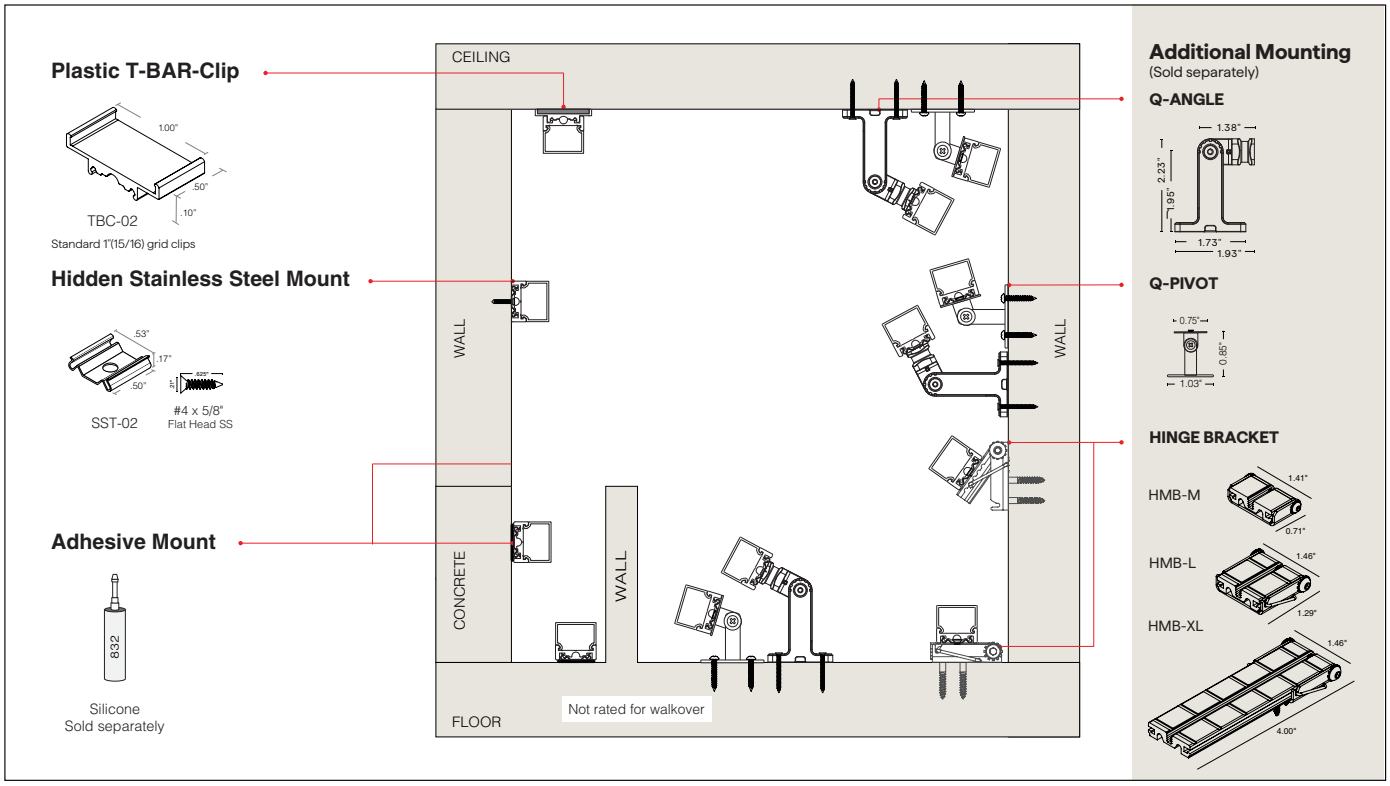
TRE3

Field Assembled Extrusion Installation Instructions

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 QTL power supply instructions for wiring
- Use only with Class 2 power supply unit — Warranty only valid with QTL 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 QTL 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

- Silicone Mount (page 8)
- Hidden Stainless Steel Clip Mount (page 9)
- Plastic T-BAR Clip Mount (page 10)

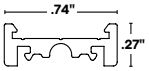
NOTES:

- *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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TRE3

Field Assembled Extrusion Installation Instructions



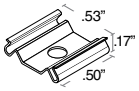
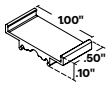
TRE3 Profile

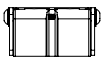
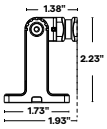
DF

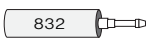
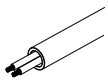
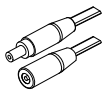

Diffused

COMPONENTS & HARDWARE

Alternate screw lengths can be used in installation as long as the screw diameter size is consistent with the included screw diameter size

HIDDEN STAINLESS STEEL CLIP	PLASTIC T-BAR CLIP	
 SST-02 Included:  Flat Head Screw #4x5/8"	 TBC-01 9/16" Flat or Tegular TB-grid clips	 TBC-02 15/16" Flat or Tegular TB-grid clips
• 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.	• 2 Clips provided per first 12", 1 clip provided per additional foot.

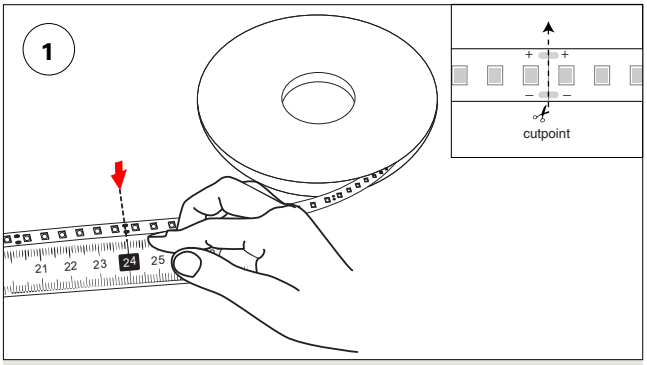
ACCESSORIES SOLD SEPARATELY		
HINGE BRACKET; sold individually	Q-ANGLE; sold in pairs	Q-PIVOT; sold in pairs
 Image shows HMB-M HMB-M HMB-L HMB-XL Included: • 3/4" long mount screw • 1/4" #4 clip mount screw	 Q-ANGLE Included: • 2 SS 6-32 Fillister screws • 2 SS 4-40 Flat head clip screws • 4 SS #6x1.25" Flat head wood screws	 Q-PIVOT Included: • SS #4-40x3/16 Flat head screw • 2 #4x3/4 Pan head screws

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

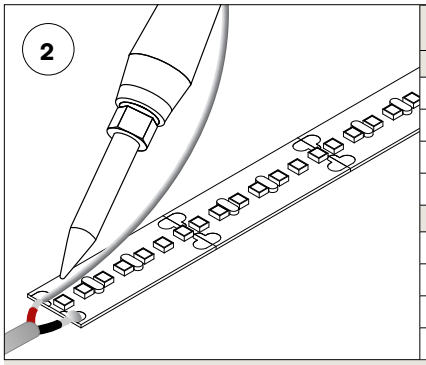
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LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DRY IP20**

If LED wires are pre-soldered from the factory, skip to page 6.



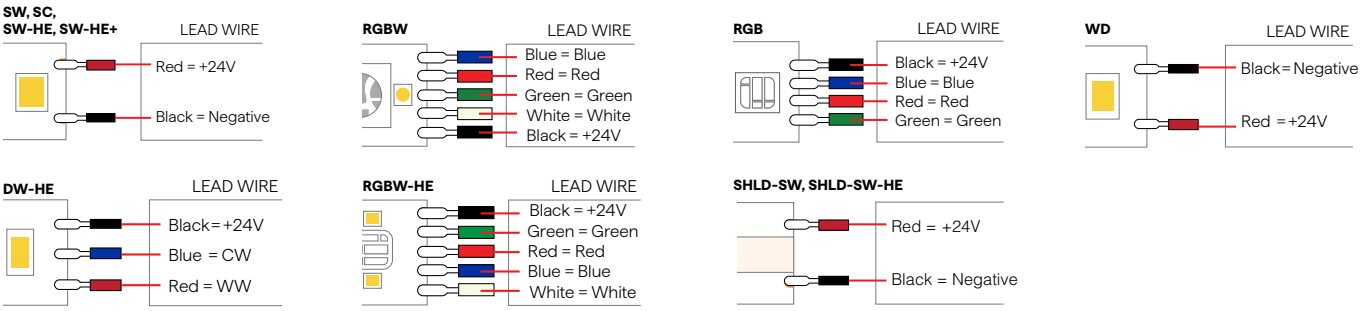
Measure and cut LED strip to desired length with scissors along the cut point.

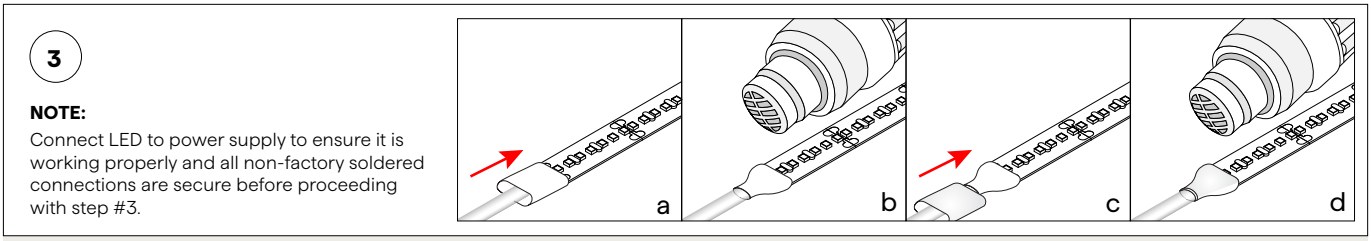


ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

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.





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.

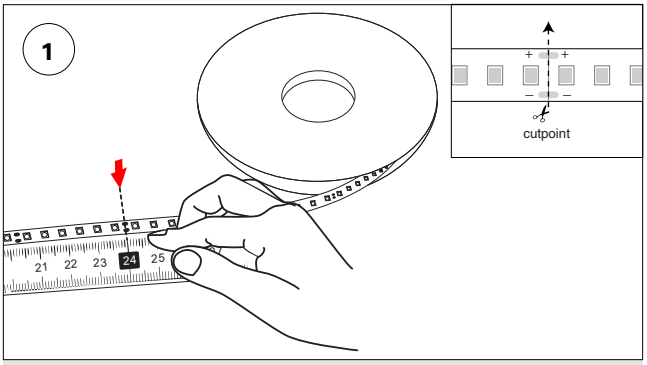
NOTES:

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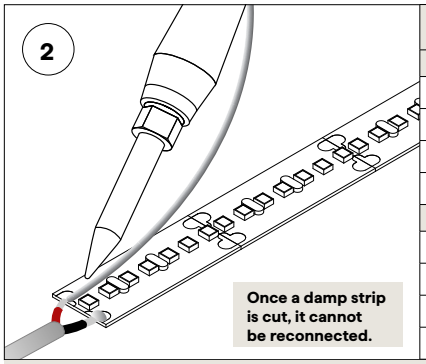
LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

If LED wires are pre-soldered from the factory, skip to page 6.



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, SW-HE — LEAD WIRE
- Red = +24V
- Black = Negative

RGBW — LEAD WIRE
- Blue = Blue
- Red = Red
- Green = Green
- White = White
- Black = +24V

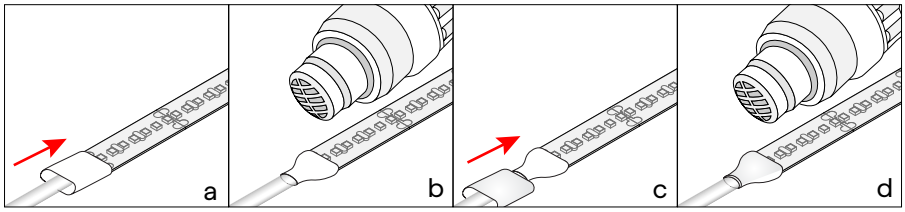
RGB — LEAD WIRE
- Black = +24V
- Blue = Blue
- Red = Red
- Green = Green

DW-HE — LEAD WIRE
- Black = +24V
- Blue = CW
- Red = WW

RGBW-HE — LEAD WIRE
- Black = +24V
- Green = Green
- Red = Red
- Blue = Blue
- White = White

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.

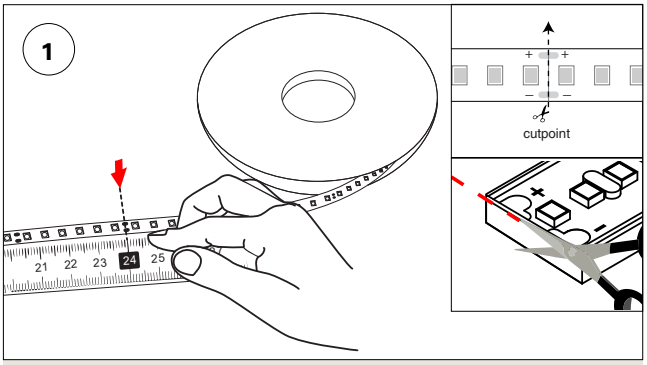
NOTES:

- *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.*

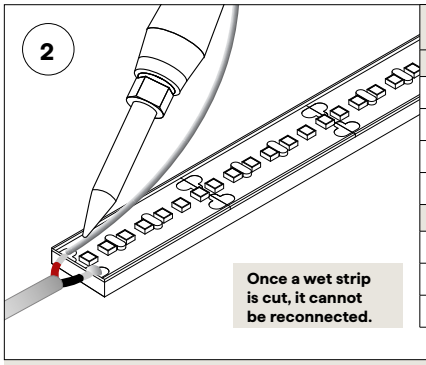
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LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **WET IP67**

If LED wires are pre-soldered from the factory, skip to page 6.



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

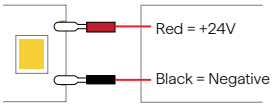


ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

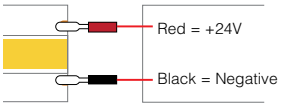
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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

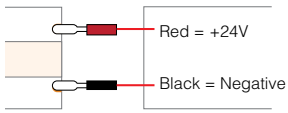
SW, SC



SW-XT

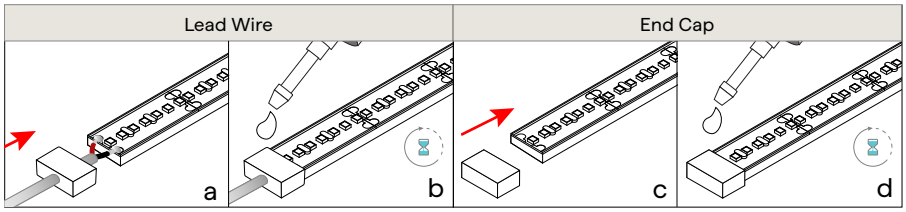


SHLD-SW, SHLD-SW-HE



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.

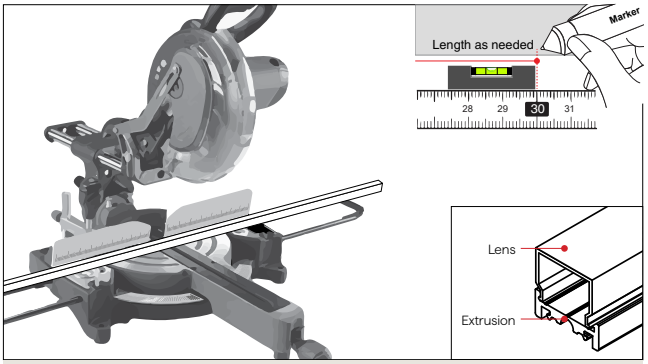
NOTES:

- *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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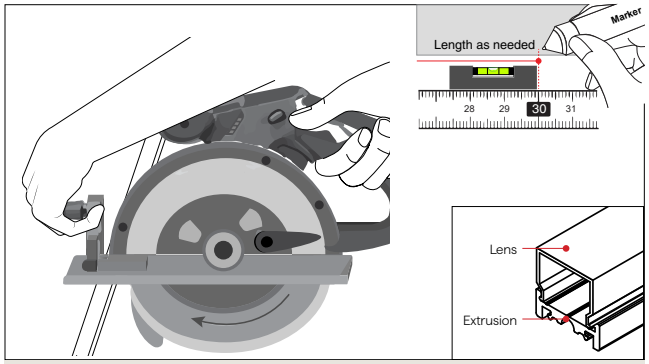
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

QTL 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.

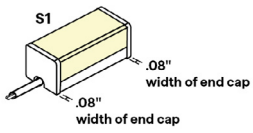
OR



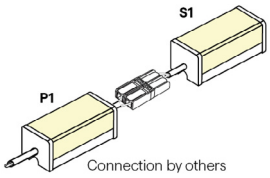
For straight runs, measure LED extrusion to desired length and cut it with a circular saw.

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

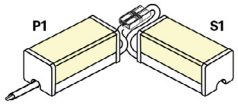
CONFIGURATION OPTIONS



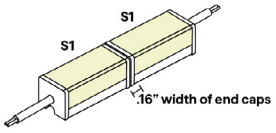
Single End Feed



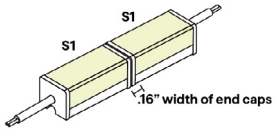
Non-Continuous End Feed



Non-Continuous Corner Feed



Continuous End to End Feed



Continuous End to End Feed

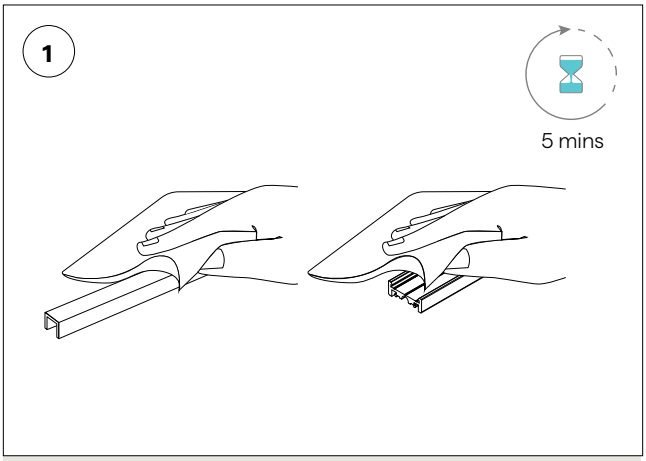
Review wire method to ensure clean installation prior to mounting extrusion.

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

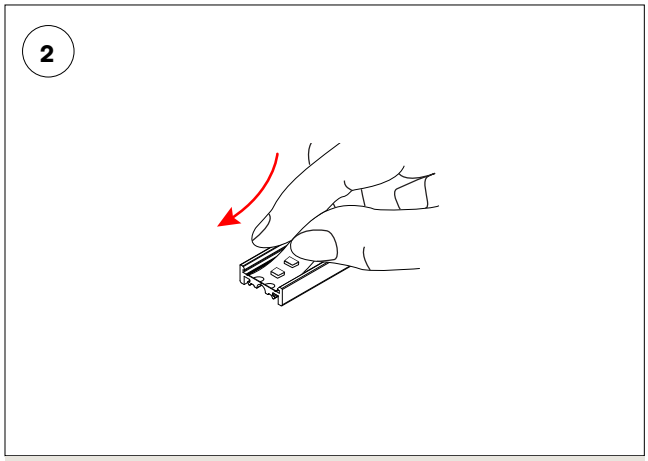
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LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

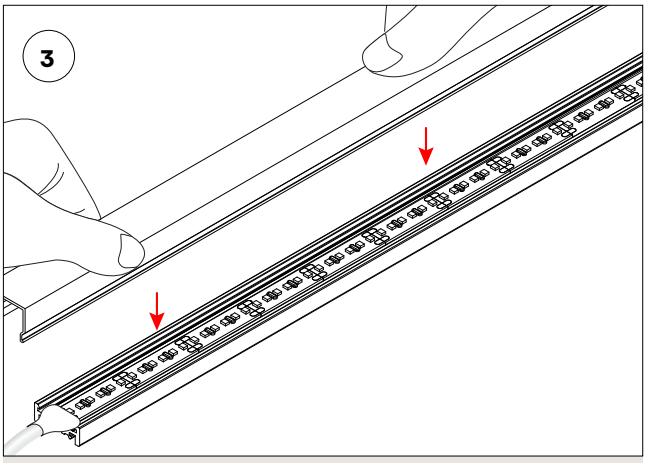
STRIP IN EXTRUSION



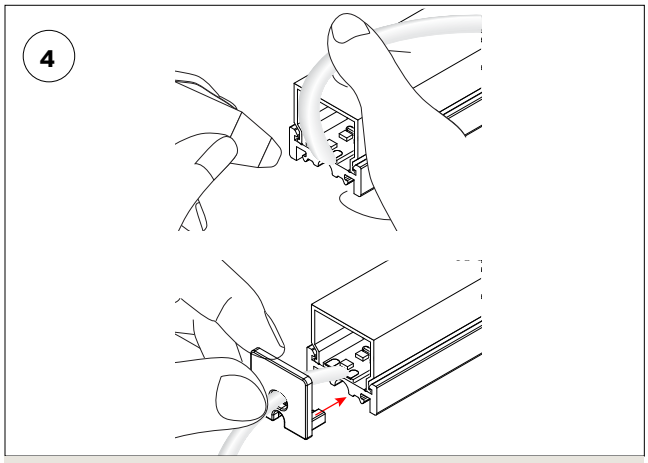
Using a 50/50 alcohol mix, thoroughly clean surface area of the extrusion. Allow 5 minutes to dry.



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.



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

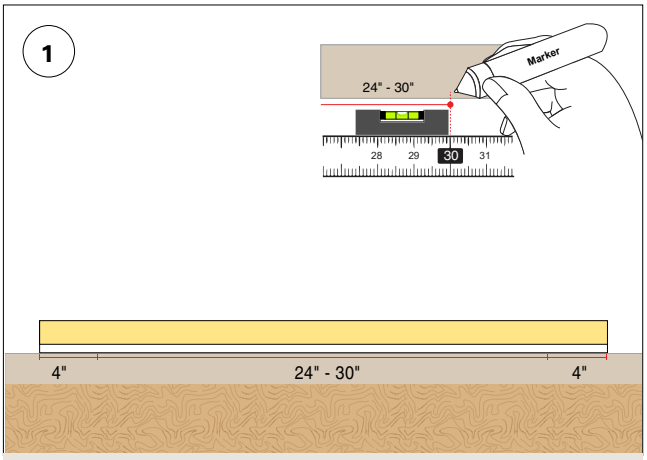


Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

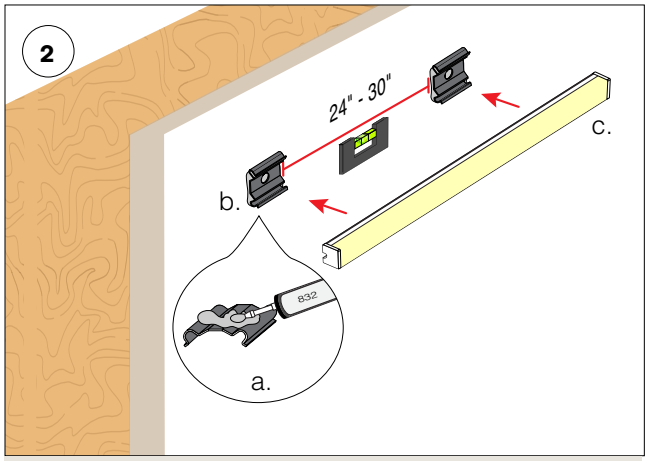
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SURFACE MOUNTING METHOD: **SILICONE**

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



Determine the TRE3 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".

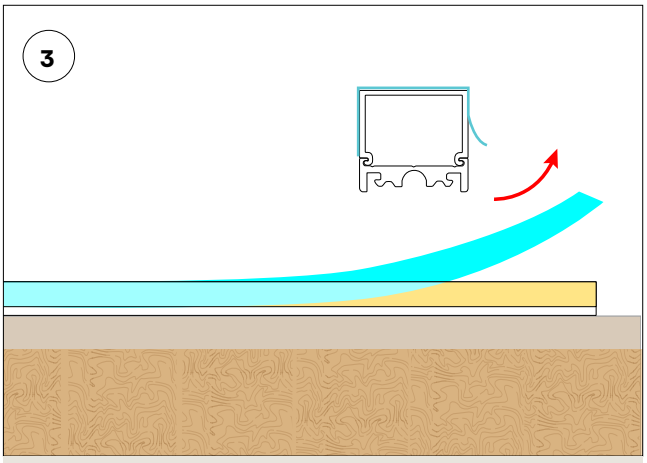


a. Firmly press the silicone-coated clips on the marked reference points.

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.

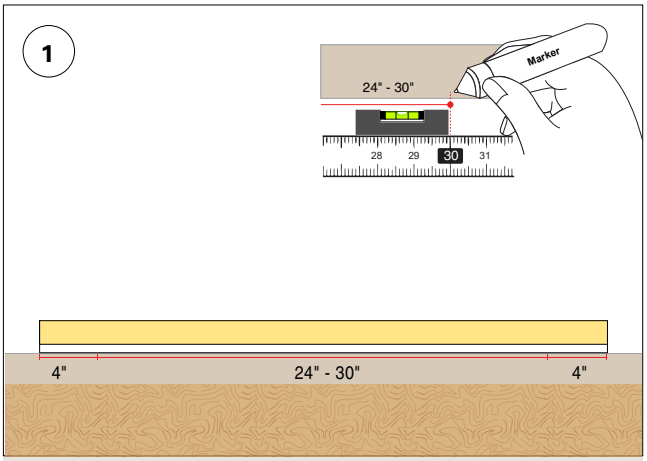


Remove protective film from the surface of the extrusion's lens.

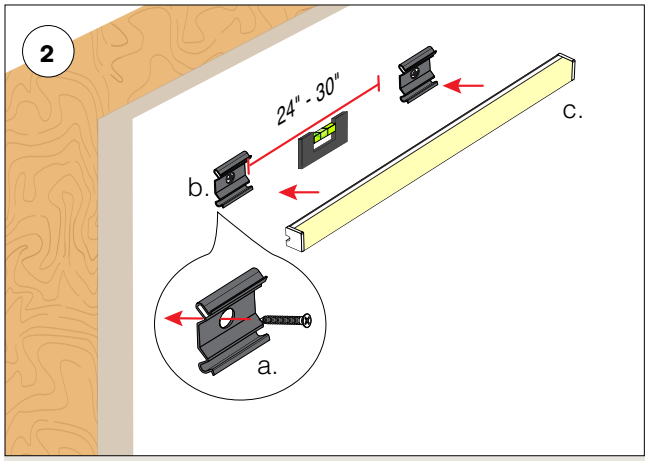
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SURFACE MOUNTING METHOD: **HIDDEN STAINLESS STEEL CLIPS**

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



Determine the TRE3 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".

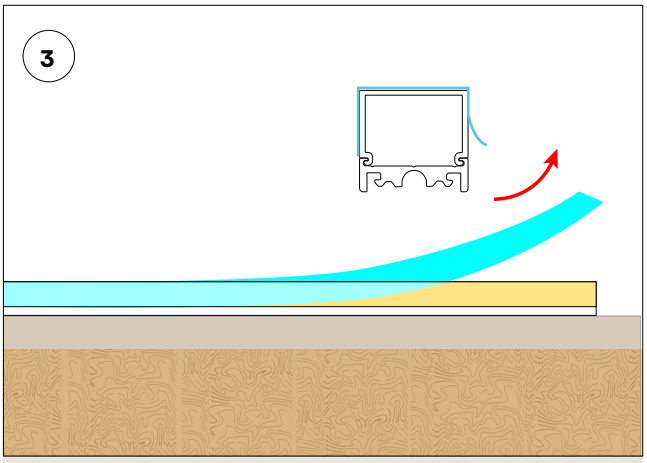


a. Secure clips using the #4 flat head hardware provided.

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.

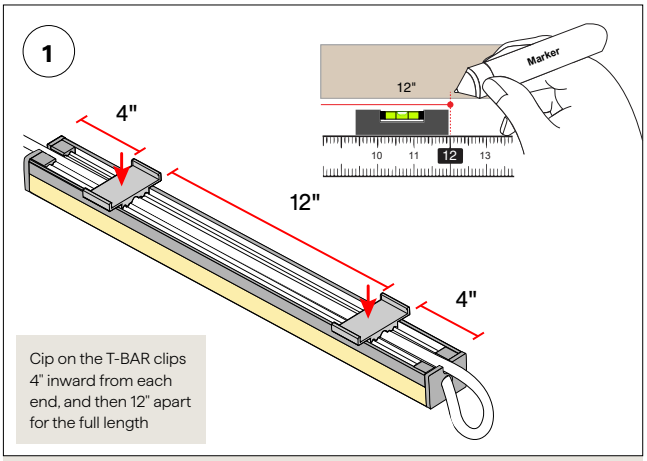


Remove protective film from the surface of the extrusion's lens.

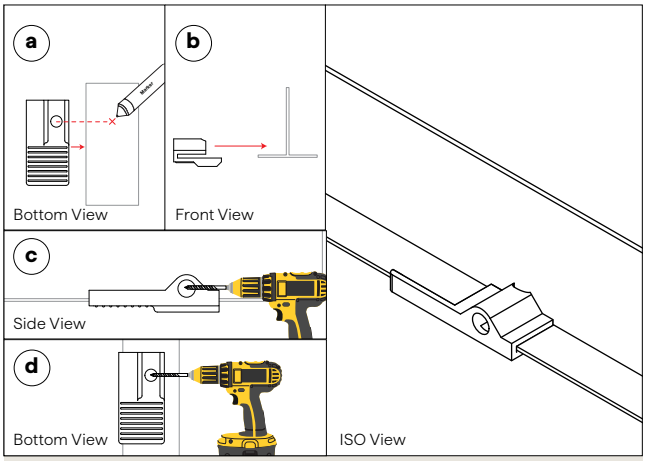
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SURFACE MOUNTING METHOD: **PLASTIC T-BAR CLIPS**

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

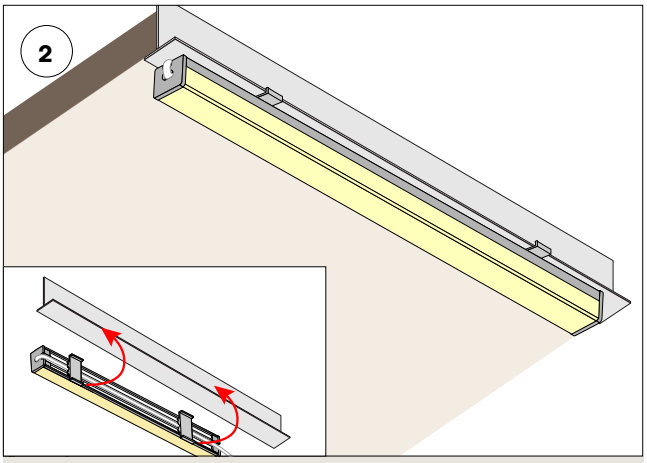


Determine the TRE3 extrusion(s) location and positioning on desired surface; evenly distribute clips. Make any necessary reference markings to indicate where each clip is to be secured in place. Recommended every 12".

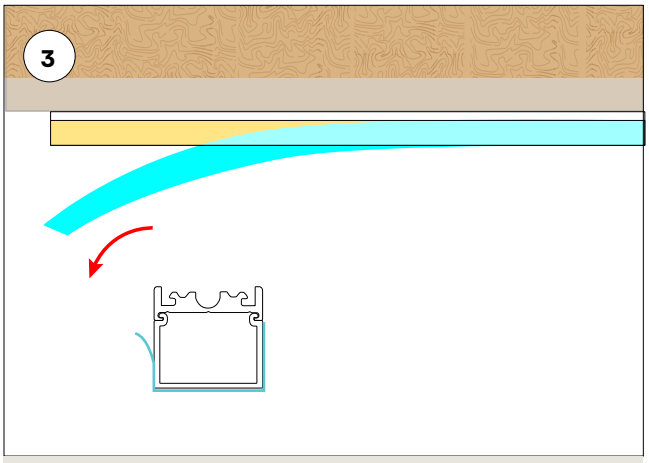


OPTIONAL - REQUIRED FOR S2/P2
Use provided jig to drill a hole in the t-bar ceiling grid, which will allow the wire to feed into the ceiling.

a. Mark where wire will go through the T-Bar.
b. Slide T-Bar Drill jig over T-Bar.
c. Using a 3-16" Drill bit drill through the side hole.
d. Then using a 3-16" Drill bit drill through the bottom hole.



Snap extrusion onto T-BAR.



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

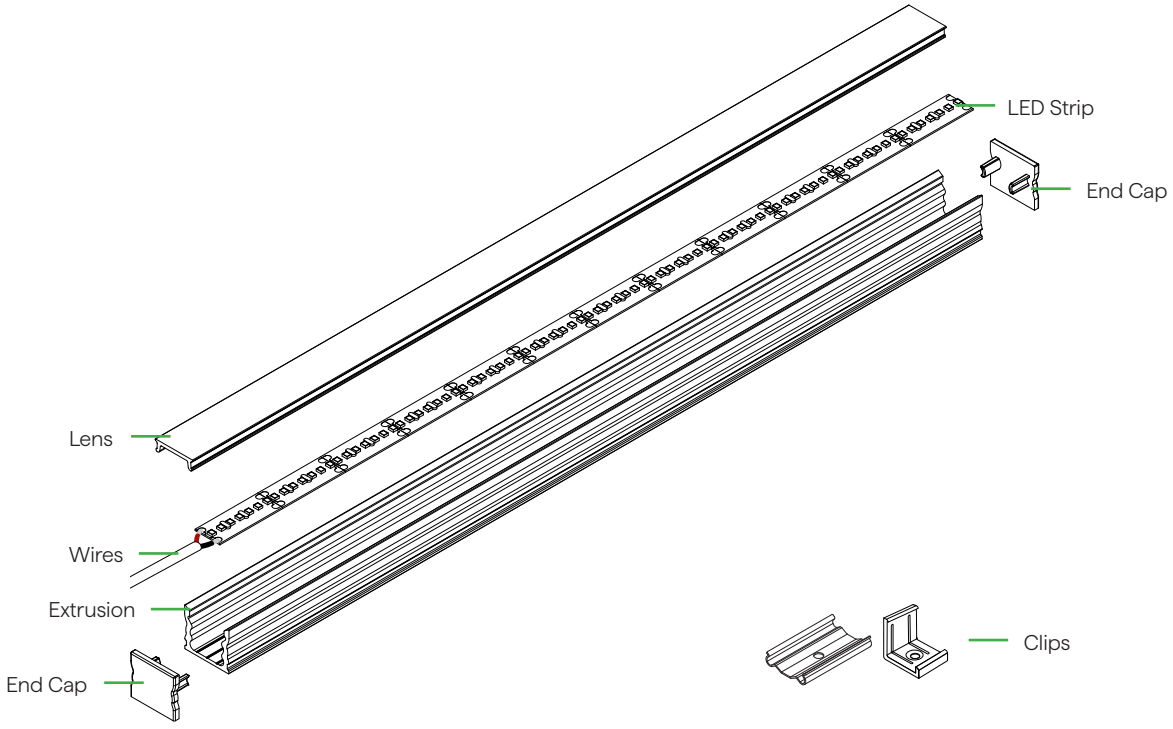
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MATERIAL RECYCLING

LINEAR FIXTURES/EXTRUSIONS

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.



7	E	41	40
Lens Plastic End Caps Plastic Clips	LED Strip Wires	Extrusion Metal End Caps	Stainless Steel Clips

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