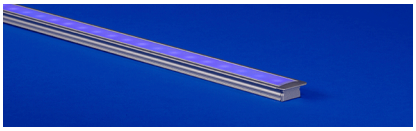
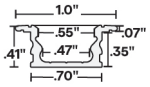
# ESSENTIALS LATO-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed






- Shallow flanged recessed fixture
- Features high quality LED strips encapsulated in polyurethane in a rigid extrusion providing a robust fixture
- Encapsulation available in clear or translucent
- Suitable for indoor and outdoor locations (IK10)
- Flanged design merges light source with surface
- Stainless steel mounting clips
- Features painted end caps to match extrusion finish or clear end caps to achieve seamless appearance of long runs
- Red, Green, and Blue LED paired with a specifiable white LED allow for color changing applications
- 21 diodes per 2" cut point allowing for minimal diode visibility

**INFORMATION REQUIRED FOR LIGHTING SCHEDULE**

| 1 PRODUCT | 2 WATTS/ FT | 3 CCT | 4 RATED | 5 EFFICIENCY | 6 LENS |
|---|---|---|---|---|---|
| LT3RGBW | 4.0HE | | ENC | | |

**ADDITIONAL INFORMATION REQUIRED TO ORDER**

| 7 WIRE INPUT/ OUTPUT | 8 CONNECTOR / WIRE IN | 9 CONNECTOR / WIRE OUT | 10 INPUT END CAP | 11 OUTPUT END CAP | 12 WIRE COLOR | 13 WIRE TYPE | 14 MOUNTING | 15 FINISH | 16 LENGTH (IN) | 17 EXACT/ OPTIMAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | STD | STD | | | SST | | | |

Sample Part Number: **LT3RGBW-4.0HE-30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E**

## 1 PRODUCT

**LT3RGBW**

See following pages for compatible power supplies.

## 2 WATTS/FT

**4.0HE** 4.0W/ft HE

## 3 CCT

**27** RGBW-2700K
**30** RGBW-3000K
**35** RGBW-3500K
**40** RGBW-4000K

## 4 RATED

**ENC** IP67

## 5 EFFICIENCY

**STD** Standard
**WO** White Optics

WhiteOptics - Internal coating, greater lumen output

## 6 LENS

**CL** Clear
**TL** Translucent

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

## 7 WIRE INPUT/OUTPUT

**SINGLE (Input only)**
**S1** End Feed
**S2** Bottom Feed

**PASS THROUGH (Input/output)**
**P1** End Feed
**P2** Bottom Feed

For continuous mounting, consider bottom feed

## 8 CONNECTOR/WIRE IN

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

## 9 CONNECTOR/WIRE OUT

**CLS** Closed End (No feed)

**BW** Bare Wire (Standard 24")
**CON6** Connector 6"
**CON24** Connector 24"

BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)

## 10 INPUT END CAP

**STD** Standard

STD - End cap matches fixture finish chosen

## 11 OUTPUT END CAP

**STD** Standard

STD - End cap matches fixture finish chosen

## 12 WIRE COLOR

**WH** White
**BK** Black

## 13 WIRE TYPE

**CL2** Class 2
**CL2P** Plenum Rated

CL2P only available with bare wire leads (BW)

## 14 MOUNTING

**SST** Stainless Steel

## 15 FINISH

**ST** Satin
**BK** Black
**BZ** Bronze
**CU** Custom

Custom finishes require a longer lead time, consult factory

## 16 LENGTH (IN)

Minimum length is 12", maximum length is 98" not including end caps. Contact us for lengths under 12".

## 17 EXACT/OPTIMAL

**O** Optimal Illumination
**E** Exact Specified Length

Exact fixtures match the exact length you specify, but they may have dim spots at the ends. Optimal fixtures are slightly shorter than the length specified, but provide full illumination from end to end. See Exact/Optimal Fixture Length charts.

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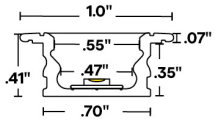
Specification subject to change. Rev-03-24-26

5 year warranty | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance | Compatible for use with QTL power supplies | IK10 rated | Patent # D799,065 S

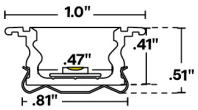
# ESSENTIALS LATO-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

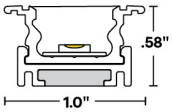
## 1 PRODUCT - DIMENSIONS




Profile




Profile with stainless steel mounting clip




Profile with low profile magnet

## 2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with LT3RGBW-4.0HE-30-ENC-STD

| | Red | | Green | | Blue | | 3000K | |
|---|---|---|---|---|---|---|---|---|
| | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | CRI |
| CL | 22 | 629 | 86 | 516 | 18 | 465 | 53 | 97 |
| TL | 12 | 629 | 45 | 516 | 10 | 465 | 28 | 97 |

[Calculated L70 = 40000 hrs]
Tested with LT3RGBW-4.0HE-30-ENC-WO

| | Red | | Green | | Blue | | 3000K | |
|---|---|---|---|---|---|---|---|---|
| | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | WAVELENGTH | LM/FT | CRI |
| CL | 24 | 629 | 90 | 516 | 19 | 465 | 55 | 97 |
| TL | 12 | 629 | 48 | 516 | 10 | 465 | 29 | 97 |

## 6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

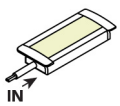
ENC/TL - Translucent encapsulation

## TEMPERATURE RATINGS

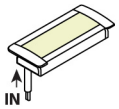
| | 4.0 HE W/FT | |
|---|---|---|
| | Min | Max |
| Ambient Operating Temp - Recessed | -4°F | 100°F |
| Ambient Operating Temp - Surface | ** | ** |

## 7 WIRE INPUT/OUTPUT

SINGLE (Input only)

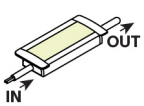



End Feed

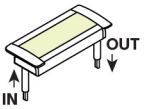



Bottom Feed

PASS THROUGH (Input/Output)




End Feed




Bottom Feed

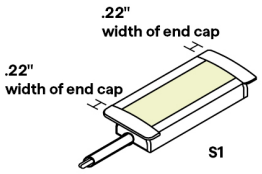
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Specification subject to change. Rev-03-24-26

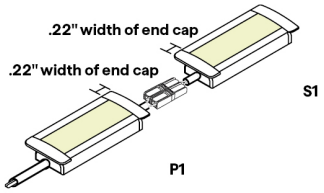
# ESSENTIALS LATO-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

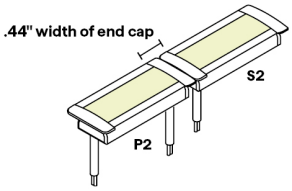
## CONFIGURATION OPTIONS



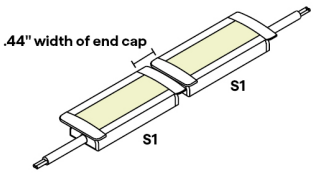

Single End Feed




Non-Continuous End Feed



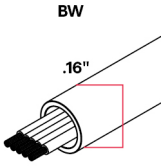

Non-Continuous Bottom Feed




Non-Continuous End to End Feed

## 8/9 CONNECTOR/WIRE – IN/OUT

Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

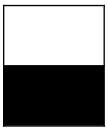



Bare Wire 24"
22 AWG




6" or 24" Overall
Wire Connector | 24 AWG
IP67 Rated, UL Listed

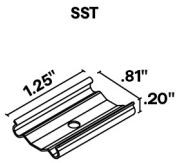
## 12 WIRE COLOR



White

Black

## 14 MOUNTING




Stainless Steel Clip

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

To order separately use SST-01

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

## 15 FINISH



Satin

Black

Bronze

Custom finishes require a longer lead time, consult factory

## 17 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

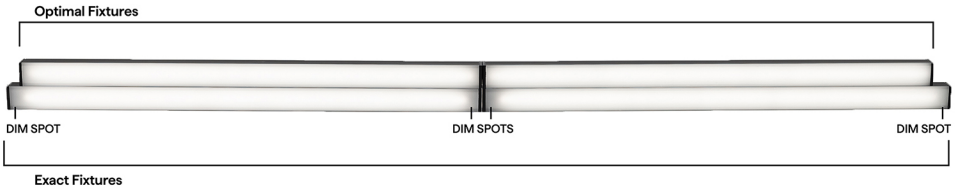
E/O Explained →

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

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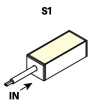
# ESSENTIALS LATO-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

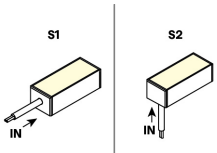
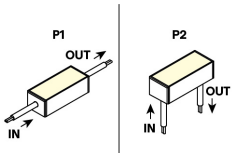



## RGBW ENC LENGTHS BY INCH

### EXACT LENGTH

| Requested Length | Potential dim spot on either end of a S1 fixture   |
|---|---|
| 12" | 2" |
| 13" | 0.5" |
| 14" | 1" |
| 15" | 1.5" |
| 16" | 2" |
| 17" | 0.5" |
| 18" | 1" |
| 19" | 1.5" |
| 20" | 2" |
| 21" | 0.5" |
| 22" | 1" |
| 23" | 1.5" |
| 24" | 2" |
| 36" | 2" |
| 48" | 2" |
| 60" | 2" |
| 72" | 2" |
| 84" | 2" |
| 96" | 2" |

### OPTIMAL LENGTH

| Requested Nominal Length | S1 & S2   | P1 & P2   |
|---|---|---|
| 12" | 8.51" | 8.86" |
| 13" | 12.51" | 12.86" |
| 14" | 12.51" | 12.86" |
| 15" | 12.51" | 12.86" |
| 16" | 12.51" | 12.86" |
| 17" | 16.51" | 16.86" |
| 18" | 16.51" | 16.86" |
| 19" | 16.51" | 16.86" |
| 20" | 16.51" | 16.86" |
| 21" | 20.51" | 20.86" |
| 22" | 20.51" | 20.86" |
| 23" | 20.51" | 20.86" |
| 24" | 20.51" | 20.86" |
| 36" | 32.51" | 32.86" |
| 48" | 44.51" | 44.86" |
| 60" | 56.51" | 56.86" |
| 72" | 68.51" | 68.86" |
| 84" | 80.51" | 80.86" |
| 96" | 92.51" | 92.86" |

## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

| DIM TO LEVEL | INDOOR | OUTDOOR |
|---|---|---|
| | RGBW, RGBW-HE | RGBW, RGBW-HE |
| 0.1% | QT-CAB-eLED+DALI-DT8<br>QT-CAB-eLED+DMX<br>QTM-eLED+DALI-DT8<br>QTM-eLED+DMX<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DALI-DT8<br>QOM-eLED+DMX<br>QOM-eLED+PS-DALI-DT8<br>QZ-DMX |
| 1% | QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QZ-DALI-DT8 |
| 10% | Non-Dim Power Supply with RGBW App Dongle | |

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# ESSENTIALS LATO-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | RGBW, RGBW-HE | RGBW, RGBW-HE |
| DMX | QTM-eLED+DMX<br>QZ-DMX | Q-SET-QZ-DMX<br>QOM-eLED+DMX<br>QZ-DMX |
| DALI-2: DT8 | QT-CAB-eLED+DALI-DT8<br>QTM-eLED+DALI-DT8<br>QZ-DALI-DT8 | Q-SET+QZ-DALI-DT8<br>QOM-eLED+DALI-DT8<br>QZ-DALI-DT8 |
| SCENE App Dimmed | Non-Dim Power Supply with RGBW App Dongle | |

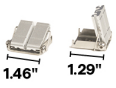
## COMPATIBLE MOUNTING ACCESSORIES

**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

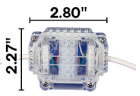
**Q-ANGLE**




Adjustable mounting accessory

## COMPATIBLE WIRING ACCESSORIES

**Q-mini-J5**




UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

## COMPATIBLE CONTROL ACCESSORIES

**SCENE APP DONGLE**




Wi-Fi or Bluetooth Connectivity

**iQ-DMX-STICK-GA2**



DMX controller for changing color & dimming

## COMPATIBLE APPS

**NFC APP**

Q-NFC

Read and write DMX addresses and adjust voltage

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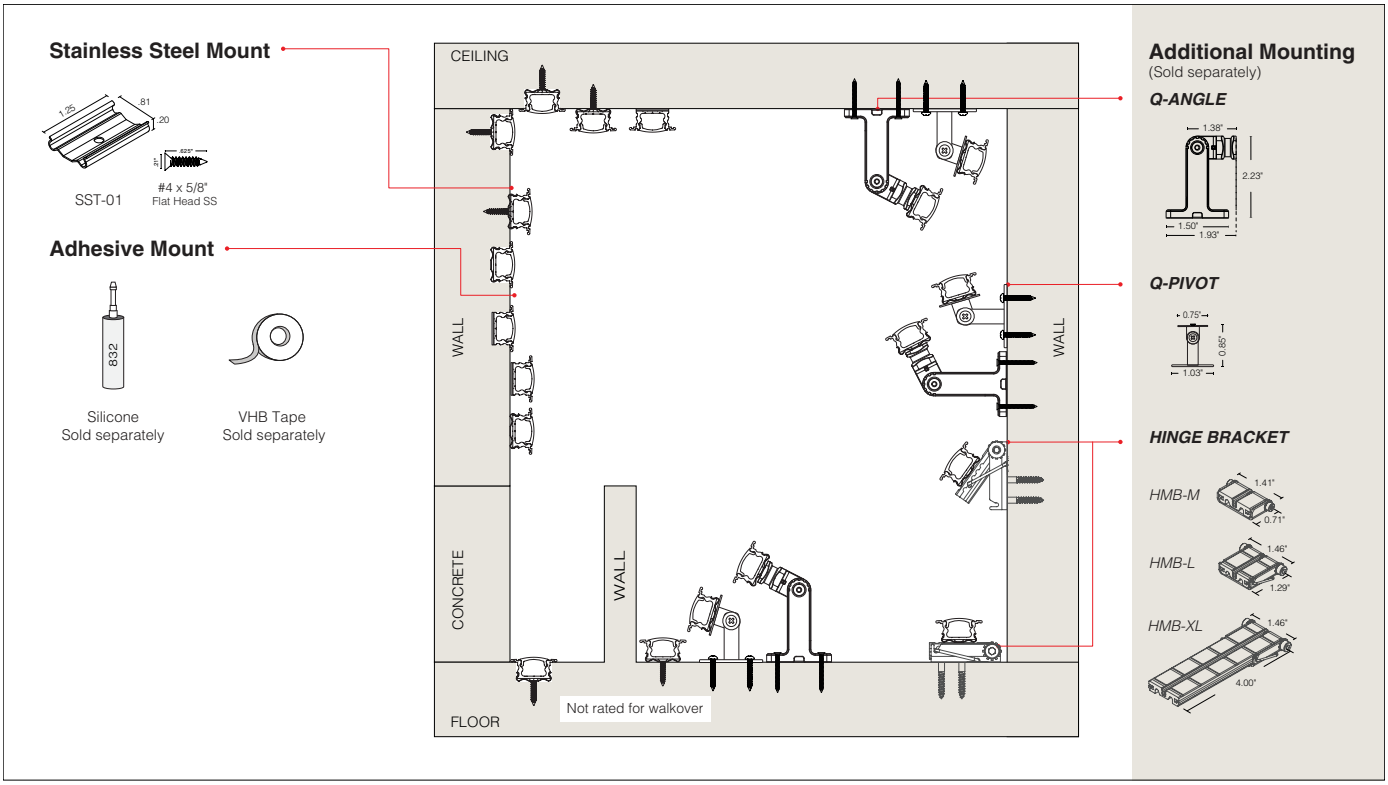
# ESSENTIALS LATO

Linear Fixture Installation Instructions

## ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Use only with Class 2 power supply unit — Warranty only valid with QTL power supplies
- Recessed in millwork
- Suitable for installation in storage area of a clothes closet when assembled as a finished fixture up to 4W/ft at QTL facility
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

## METHODS OF INSTALLATION:




**Surface Mounting Methods**

- VHB Mount (page 4-5)
- Silicone Mount (page 6)
- Screw Mount (page 7)

**Recessed Mounting Methods**

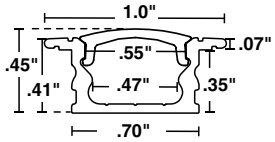
- VHB Mount : Millwork (page 8)
- Silicone Mount : Millwork (page 9)
- Screw Mount : Millwork (page 10)



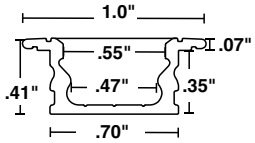
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# ESSENTIALS LATO

Linear Fixture Installation Instructions




LATO-01

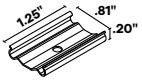



LATO-03

## 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

### STAINLESS STEEL CLIP




SST-01

| Included |
| --- |
| Flat Head Screw #4x5/8" |

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

### ACCESSORIES SOLD SEPARATELY

#### HINGE BRACKET; sold individually

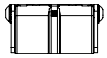
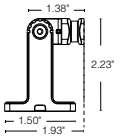


Image shows HMB-M

HMB-M
HMB-L
HMB-XL

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

#### Q-ANGLE; sold in pairs




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; sold in pairs

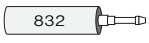



Q-PIVOT

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

### ADHESIVE SOLD SEPARATELY

#### SILICONE




DOWSIL 832

#### VHB TAPE; sold in 15' increments



TAPE-VHB-IP20

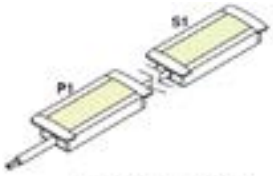


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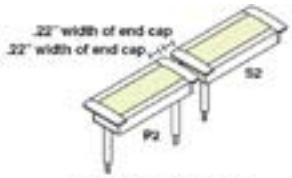
## CONTINUOUS WIRING CONFIGURATION OPTIONS



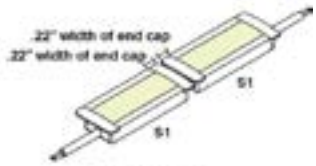
Single End Feed



Non-Continuous End Feed



Non-Continuous Bottom Feed



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

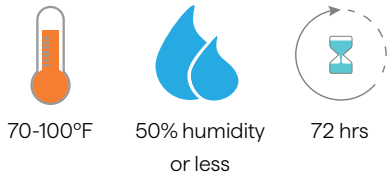


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## SURFACE MOUNTING METHOD

SURFACE PREPARATION

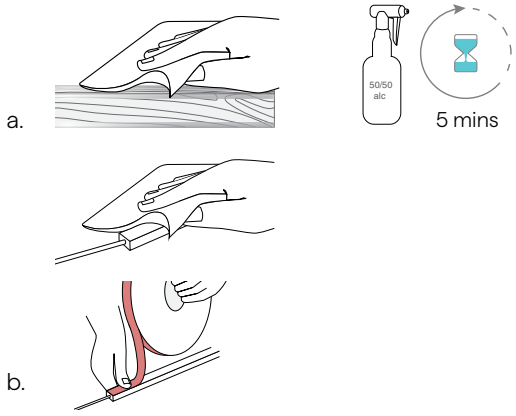
**1**




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.

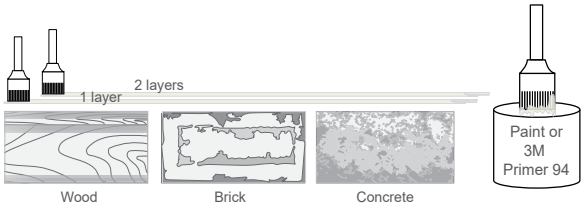
**2**




**a.** Using a 50/50 alcohol mix, thoroughly clean the backside of the fixture and the surface area where fixture 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.

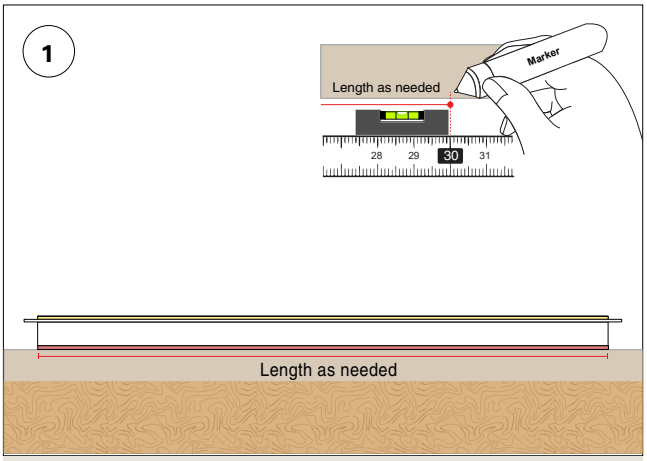
| MATERIALS | SUGGESTED EPOXIES |
|---|---|
| Concrete, Stone, Cinderblock, Metal, and Brick | Loctite Metal and Concrete Two-Part Epoxy |
| ABS, Fiberglass, Plastic, and PVC | Loctite Plastic Two-Part Epoxy |
| Tile, Wood, Ceramic, Glass, or Metal | Loctite Clear Two-Part Epoxy |
| All Purpose | Strong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



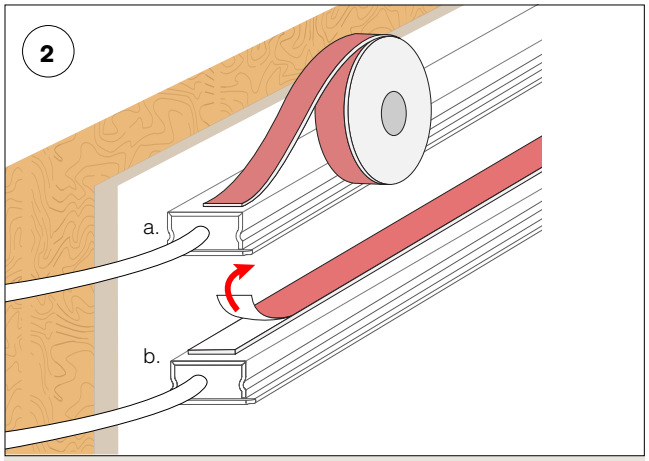

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## SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

**BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength.**

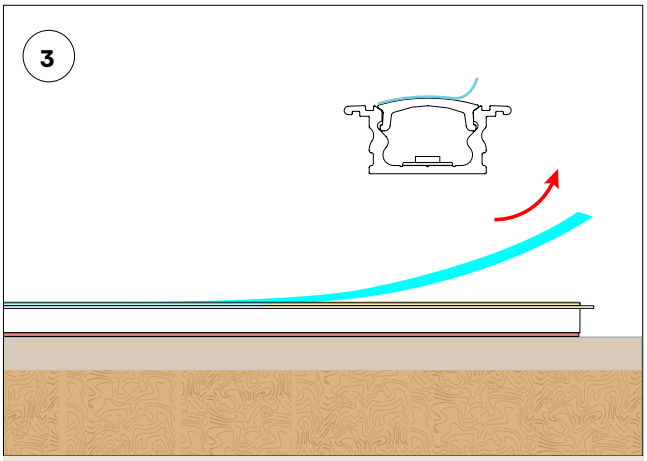



Determine the LATO fixture(s) location and positioning on desired surface before adhering fixture to surface. Make any necessary reference markings to indicate fixture placement.




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

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




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

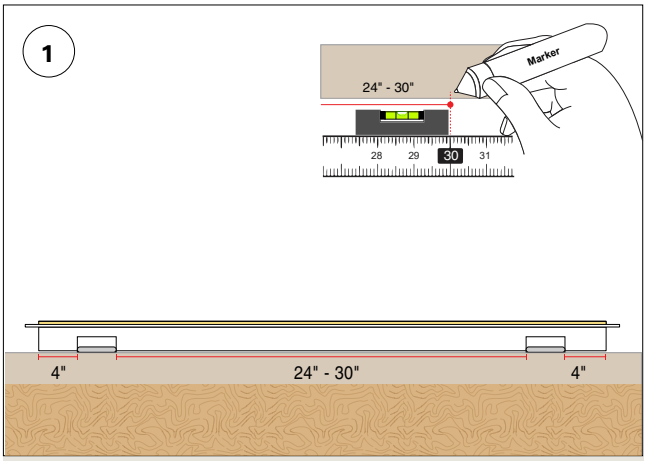
***NOTES:*** *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on* page 4 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*



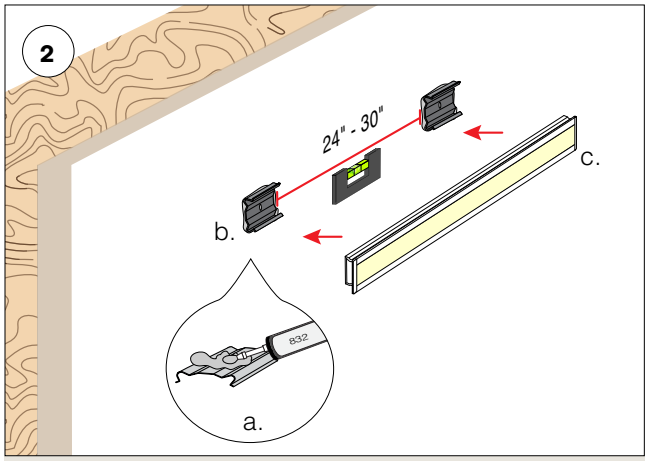
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## SURFACE MOUNTING METHOD: **SILICONE MOUNT**

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




Determine the LATO fixture(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".

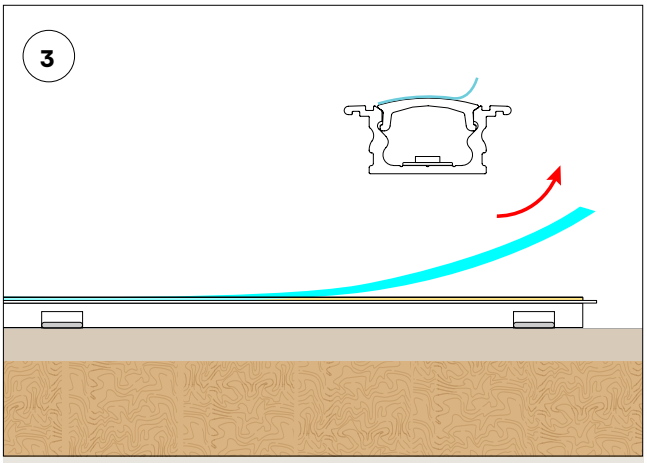



**a.** Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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

**b.** Snap fixture onto clips.

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



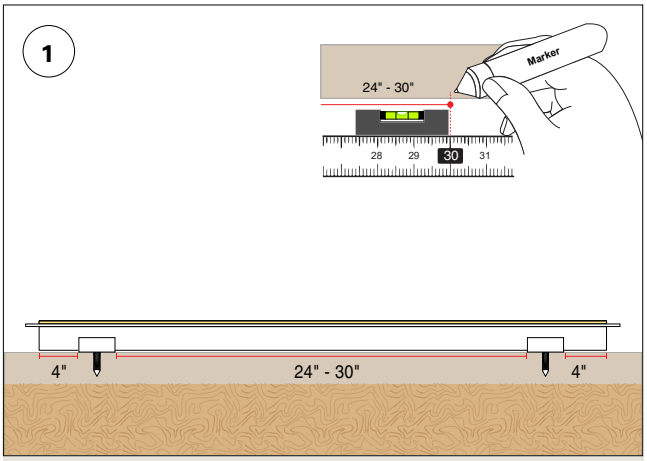

Remove protective film from the surface of the fixture's lens.



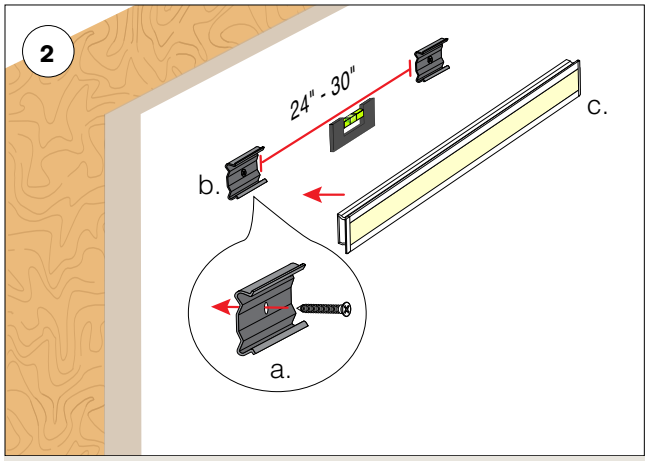

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## SURFACE MOUNTING METHOD: **SCREW MOUNT**

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




Determine the LATO fixture(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".

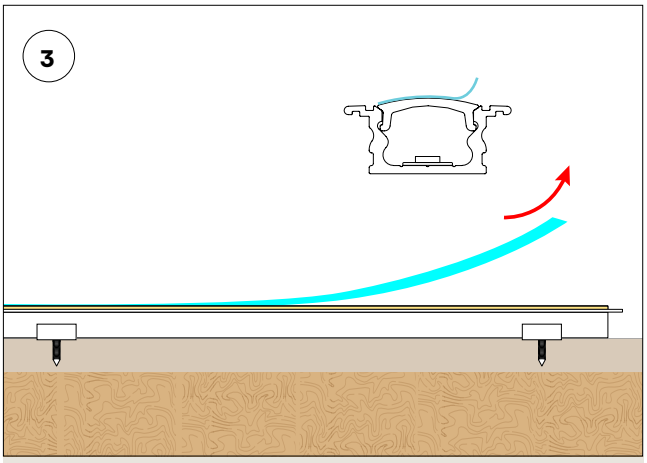



**a.** Secure clips using the #4 flat head screw provided.

**b.** Ensure the screw head is flush with the clip's base.

**c.** Snap fixture 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.



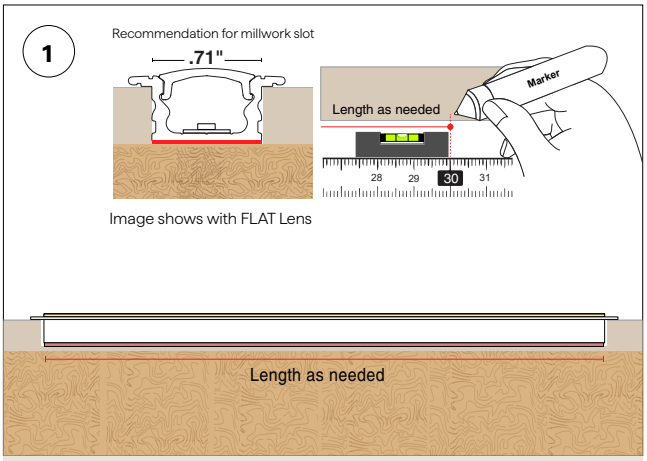

Remove protective film from the surface of the fixture's lens.




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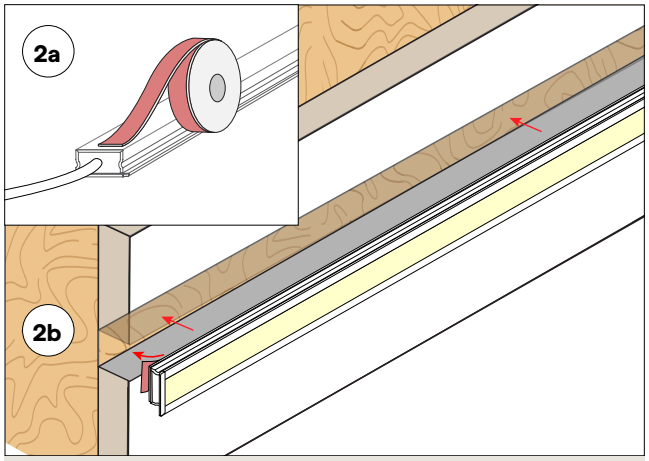
## SURFACE MOUNTING METHOD: **MILLWORK VHB ADHESIVE MOUNT**

**BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength.**



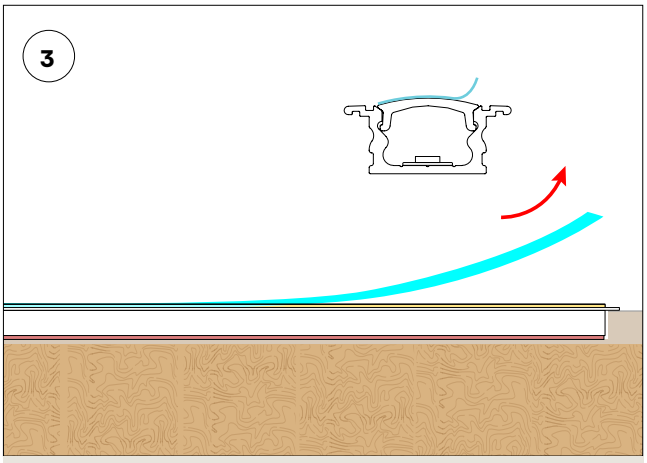

Determine the LATO fixture(s) location and positioning on desired surface before adhering fixture to surface. Make any necessary reference markings to indicate fixture placement.

**NOTE:** Depth of the channel in the millwork is dependent on overall height.




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

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




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

***NOTES:*** *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on* page 4 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*



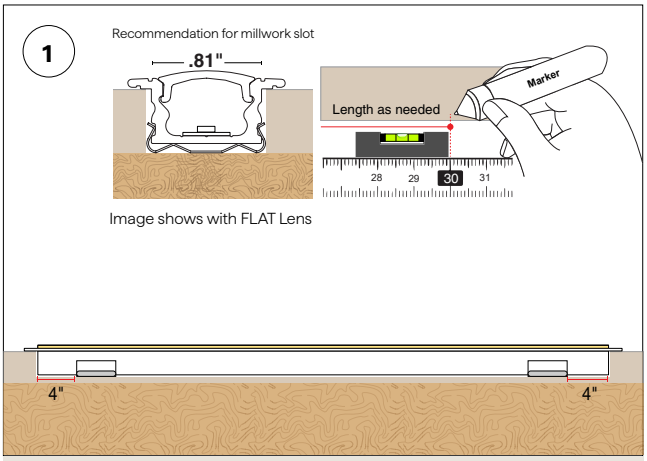
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# ESSENTIALS LATO

Linear Fixture Installation Instructions

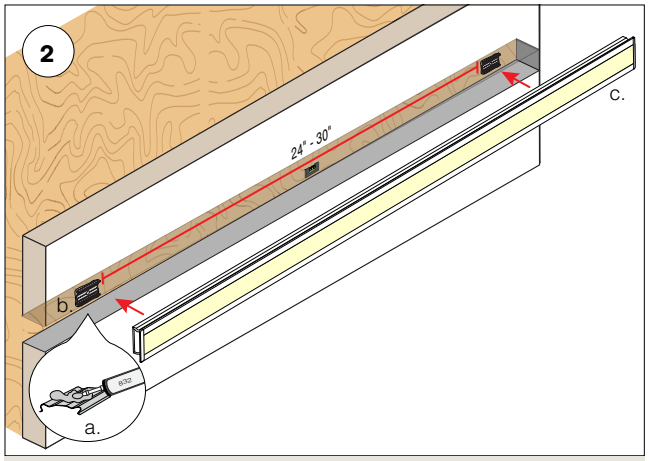
## RECESSED MOUNTING METHOD: **MILLWORK SILICONE**

- Apply silicone in well ventilated area




Determine the LATO fixture(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".

**NOTE:** Depth of the channel in the millwork is dependent on overall height.

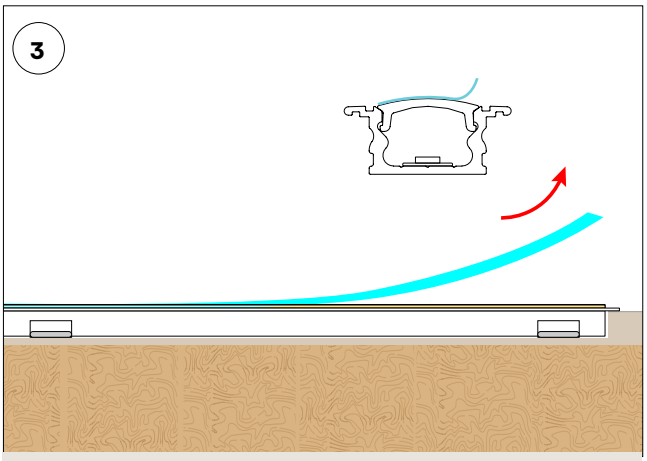



**a.** Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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

**b.** Snap fixture onto clips.

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



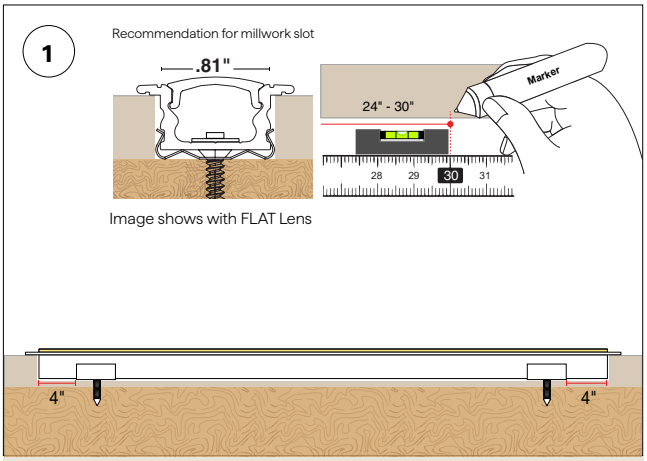

Remove protective film from the surface of the fixture's lens.



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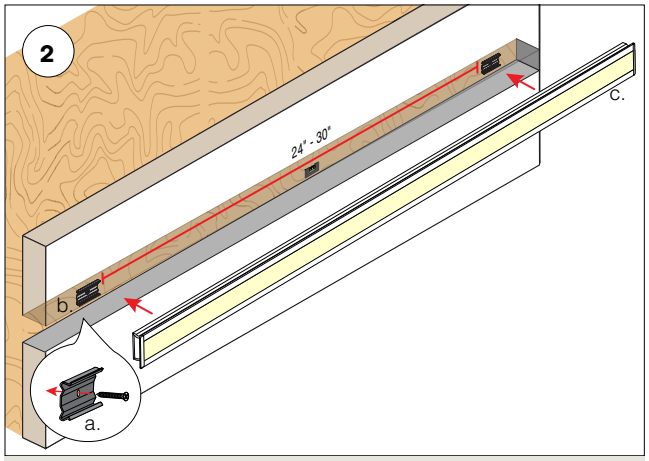
## RECESSED MOUNTING METHOD: **MILLWORK SCREW MOUNT**

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




Determine the LATO fixture(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".

**NOTE:** Depth of the channel in the millwork is dependent on overall height.

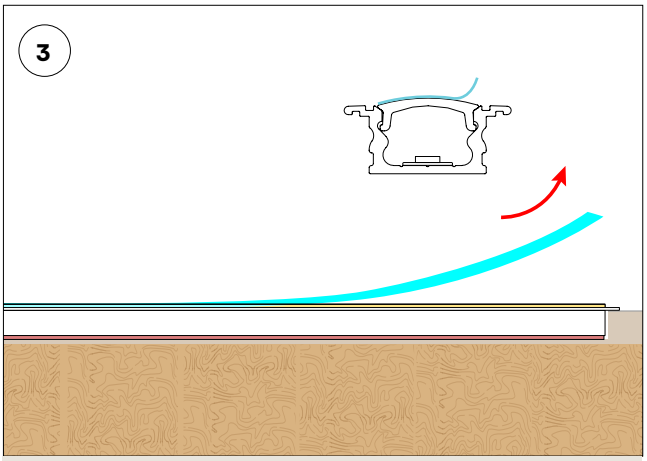



**a.** Mount the #4 flat head screw into the clip.

**b.** Ensure the screw head is flush with the clip's base.

**c.** Snap the fixture onto the clips.

**NOTE:** If surface application requires a longer screw, the screw size must be a #4 Flat Head. 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 fixture's lens.



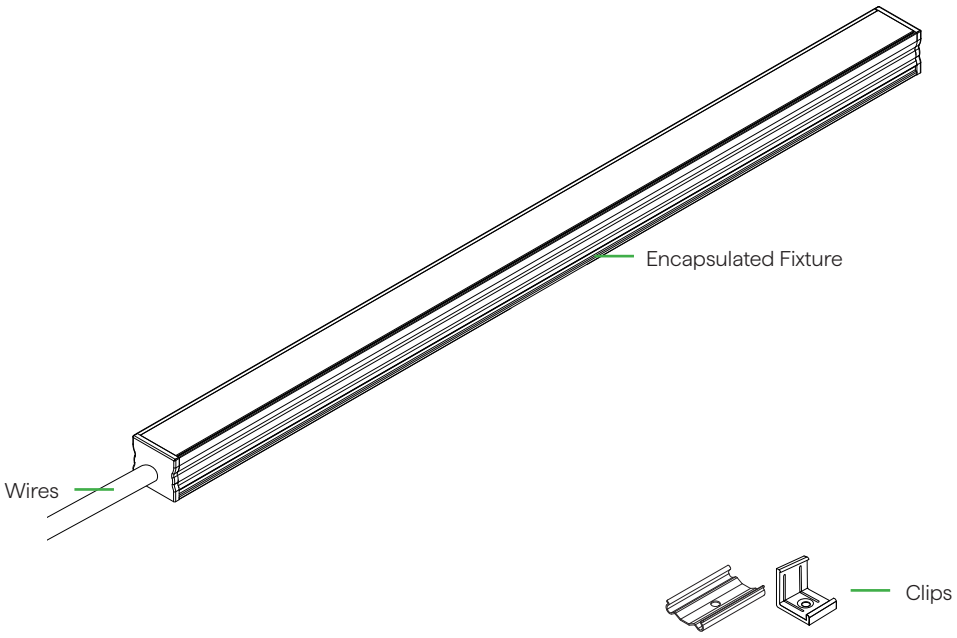

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# MATERIAL RECYCLING

ENCAPSULATED LINEAR FIXTURES

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 | 40 |
|---|---|---|
| Plastic Clips | Encapsulated Fixture Wires | Stainless Steel Clips |

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