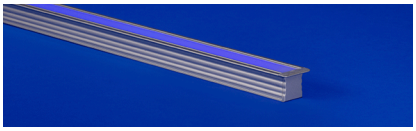
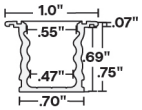
ESSENTIALS FLUR™- ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed





- Deep 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)
- Offered with an optional mounting tray
- Features two wire feed options
- 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	2	3	4	5	6
PRODUCT	WATTS/ FT	CCT	RATED	EFFICIENCY	LENS
FL3RGBW	4.0HE		ENC		

ADDITIONAL INFORMATION REQUIRED TO ORDER

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

Sample Part Number: **FL3RGBW-4.0HE-30-ENC-WO-TL-P1-BW-BW-STD-STD-BK-CL2-SST-ST-48"-E**

1 PRODUCT

FL3RGBW

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
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.

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTLlighting | www.QTLlighting

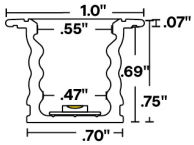
Specification subject to change. Rev-03-24-26

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 # D798,471 S

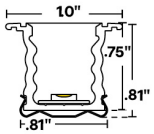
ESSENTIALS FLUR™-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

1 PRODUCT - DIMENSIONS



Profile



Profile with stainless steel mounting clip

2 DELIVERED LUMENS

[Calculated L70 = 40000 hrs]
Tested with FL3RGBW-4.0HE-30-ENC-STD

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	18	629	69	516	15	465	43	97
TL	11	629	44	516	9	465	27	97

[Calculated L70 = 40000 hrs]
Tested with FL3RGBW-4.0HE-30-ENC-WO

	Red		Green		Blue		3000K	
	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	WAVELENGTH	LM/FT	CRI
CL	20	629	77	516	17	465	47	97
TL	14	629	52	516	11	465	32	97

6 DIODE VISIBILITY



ENC/CL - Clear encapsulation

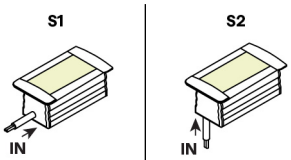
ENC/TL - Translucent encapsulation

TEMPERATURE RATINGS

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

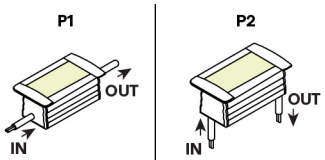
7 WIRE INPUT/OUTPUT

SINGLE (Input only)



End Feed | Bottom Feed

PASS THROUGH (Input/Output)



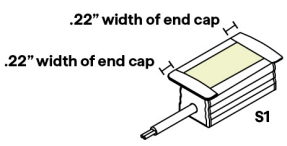
End Feed | Bottom Feed

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

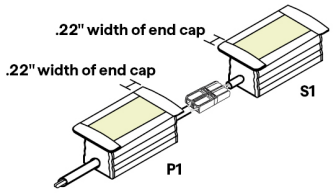
ESSENTIALS FLUR™-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

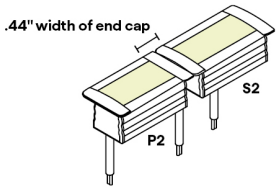
CONFIGURATION OPTIONS



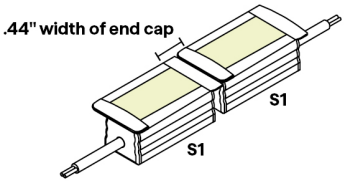
Single End Feed



Non-Continuous End Feed



Non-Continuous Bottom Feed

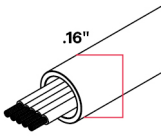


Non-Continuous End to End Feed

8/9 CONNECTOR/WIRE – IN/OUT

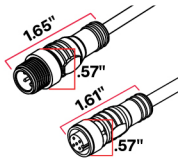
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out

BW



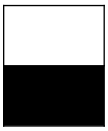
Bare Wire 24"
22 AWG

CON6/CON24



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

12 WIRE COLOR

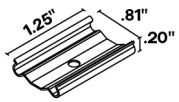


White

Black

14 MOUNTING

SST



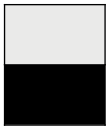
Stainless Steel Clip

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

Custom finishes require a longer lead time, consult factory

17 EXACT/OPTIMAL FIXTURE LENGTH

E/O Length Calculator →

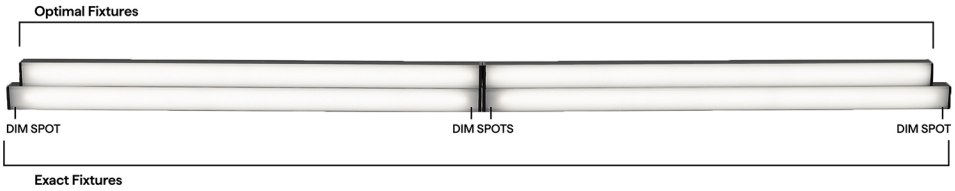
E/O Explained →

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.

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTLlighting | www.QTLlighting

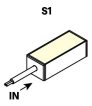
ESSENTIALS FLUR™-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

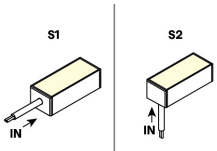
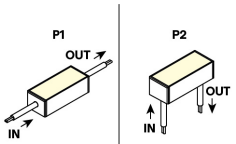


RGBW-HE ENC LENGTHS BY INCH

EXACT LENGTH

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

OPTIMAL LENGTH

Requested Nominal Length	S1 & S2 	P1 & P2 
12"	10.51"	10.86"
13"	12.51"	12.86"
14"	12.51"	12.86"
15"	14.51"	14.86"
16"	14.51"	14.86"
17"	16.51"	16.86"
18"	16.51"	16.86"
19"	18.51"	18.86"
20"	18.51"	18.86"
21"	20.51"	20.86"
22"	20.51"	20.86"
23"	22.51"	22.86"
24"	22.51"	22.86"
36"	34.51"	34.86"
48"	46.51"	46.86"
60"	58.51"	58.86"
72"	70.51"	70.86"
84"	82.51"	82.86"
96"	94.51"	94.86"

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 QT-CAB-eLED+DMX QTM-eLED+DALI-DT8 QTM-eLED+DMX QZ-DMX	Q-SET-QZ-DMX QOM-eLED+DALI-DT8 QOM-eLED+DMX QOM-eLED+PS-DALI-DT8 QZ-DMX
1%	QZ-DALI-DT8	Q-SET+QZ-DALI-DT8 QZ-DALI-DT8
10%	Non-Dim Power Supply with RGBW App Dongle	

© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | www.QTL.lighting

ESSENTIALS FLUR™-ENCAPSULATED (03) RGBW

24VDC Linear Fixtures - Recessed

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

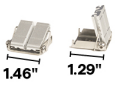
COMPATIBLE MOUNTING ACCESSORIES

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

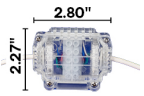
Q-ANGLE



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

iQ-DMX-STICK-DE3



DMX controller for changing color & dimming

COMPATIBLE APPS

NFC APP

Q-NFC

Read and write DMX addresses and adjust voltage

© 2026 QTL. All rights reserved

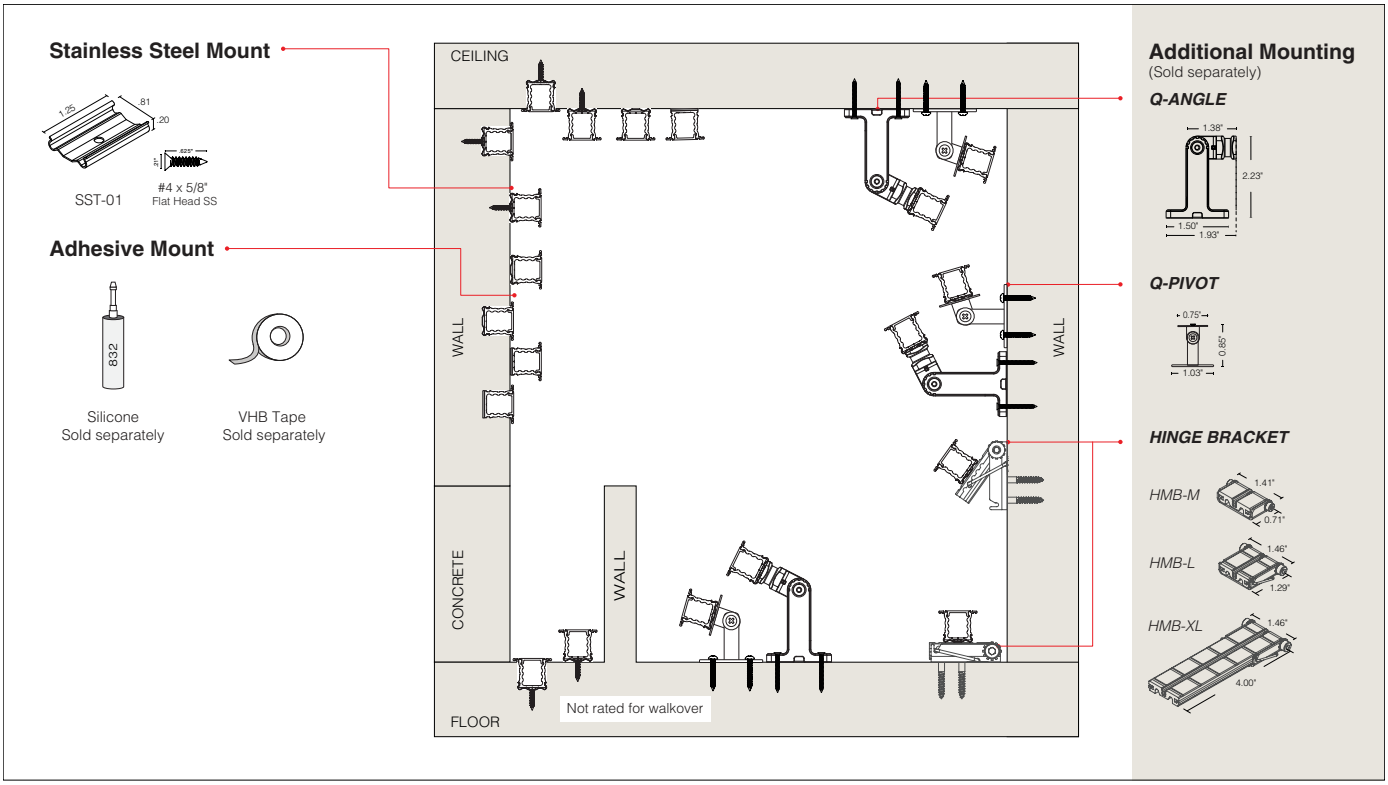
ESSENTIALS FLUR

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
- Surface mount or 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)

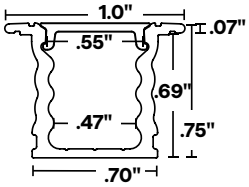
Recessed Mounting Methods

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

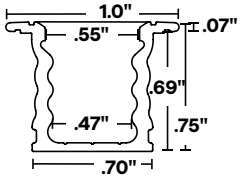
© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

ESSENTIALS FLUR

Linear Fixture Installation Instructions



FLUR-01

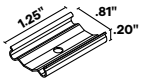


FLUR-03

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

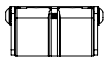
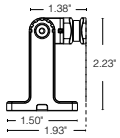


Image shows HMB-M

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

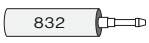


Q-PIVOT

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

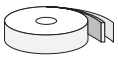
ADHESIVE SOLD SEPARATELY

SILICONE



DOWSIL 832

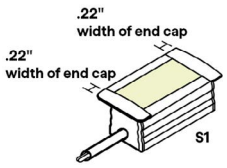
VHB TAPE; sold in 15' increments



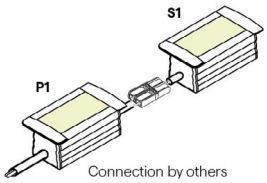
TAPE-VHB-IP20

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

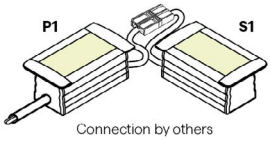
CONFIGURATION OPTIONS



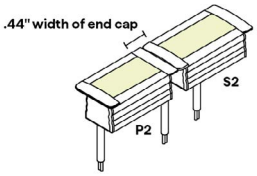
Single End Feed



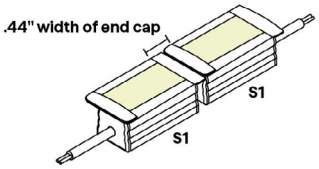
Non-Continuous End Feed



Non-Continuous Corner Feed



Continuous Bottom Feed



Continuous End to End Feed

Review wire method to ensure clean installation prior to mounting finished Fixture.

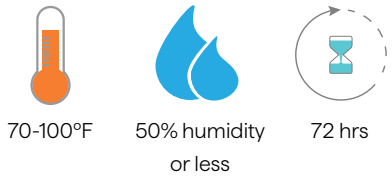
NOTE: Additional wire methods include:
S1 & S2: Connector/Wire Input only
P1 & P2: Connector/Wire Input and Output

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

SURFACE MOUNTING METHOD

SURFACE PREPARATION

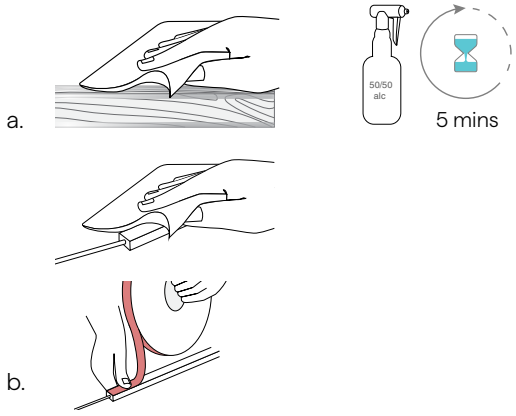
1



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.

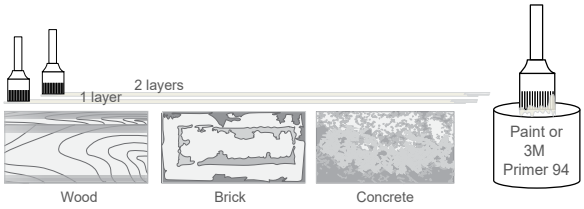
2



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



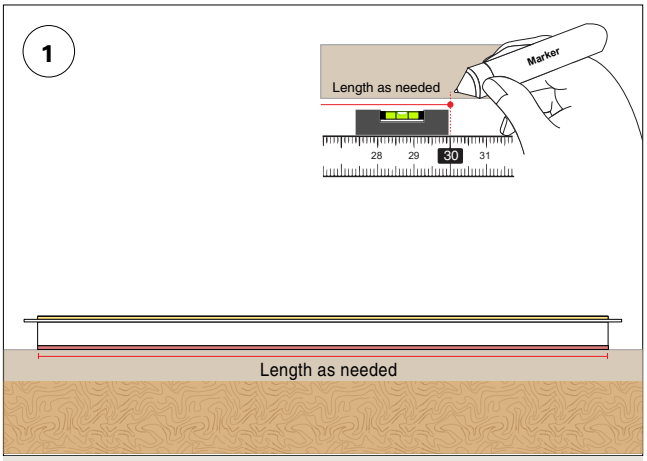
For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

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

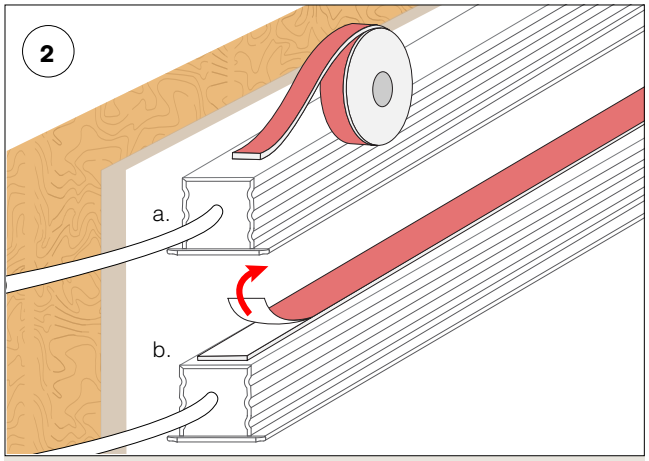
© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

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

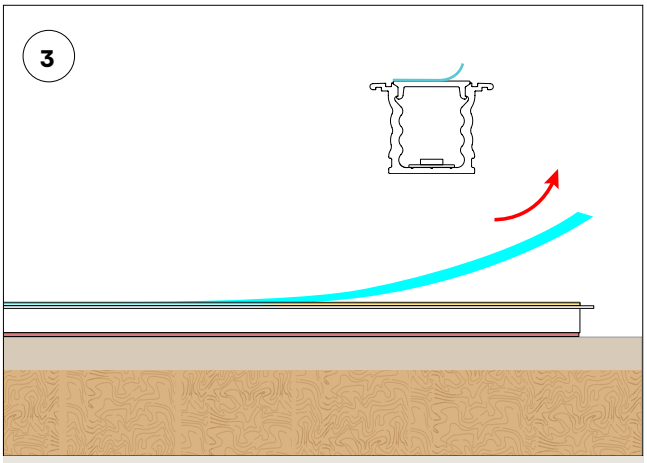


Determine the FLUR fixture(s) location and positioning on desired surface before adhering Fixture to surface. Make any necessary reference markings to indicate fixture placement.



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.*

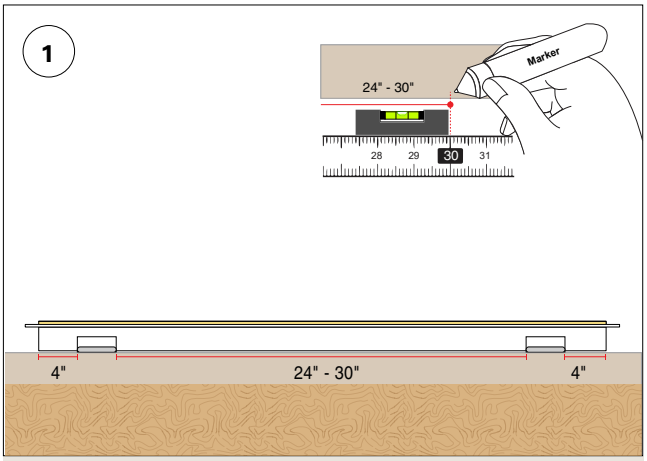
© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

ESSENTIALS FLUR

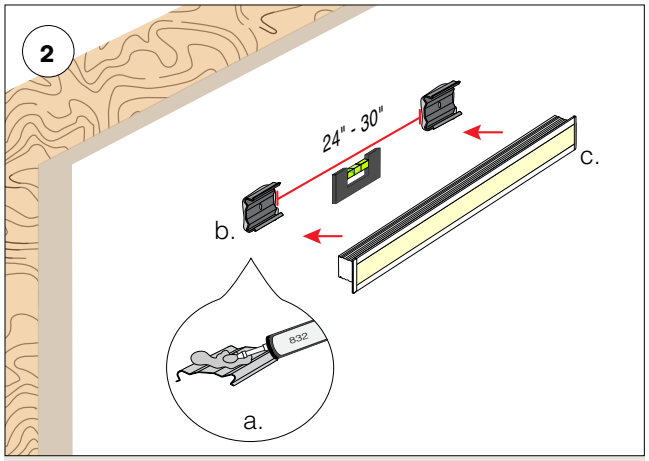
Linear Fixture Installation Instructions

SURFACE MOUNTING METHOD: **SILICONE**

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



Determine the FLUR 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".

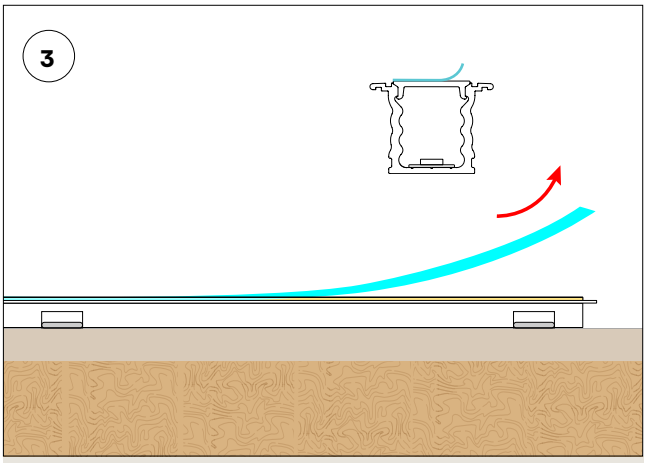


a. Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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.

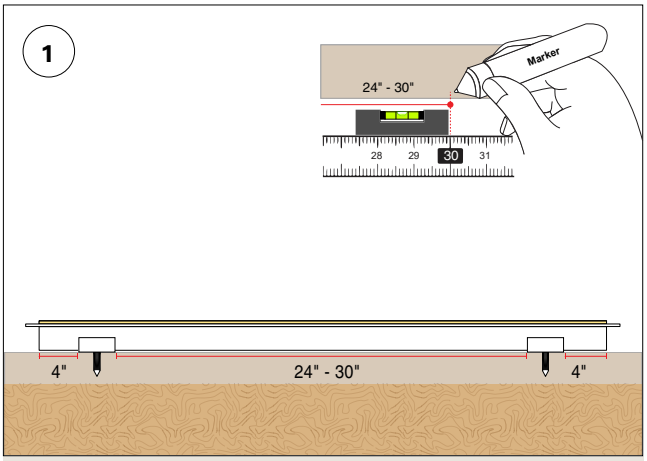
© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

ESSENTIALS FLUR

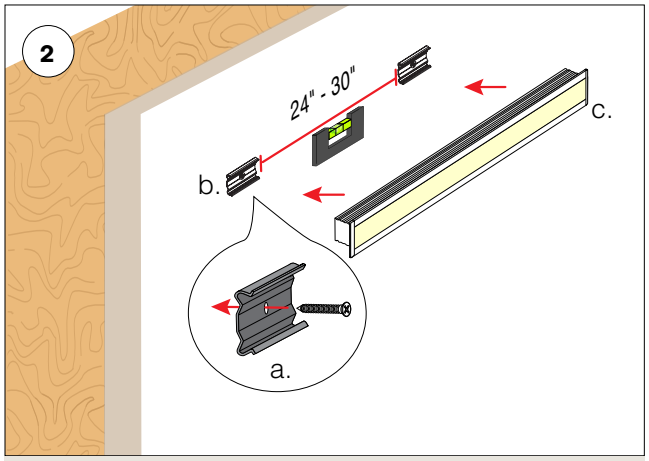
Linear Fixture Installation Instructions

SURFACE MOUNTING METHOD: **SCREW MOUNT**

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



Determine the FLUR 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".

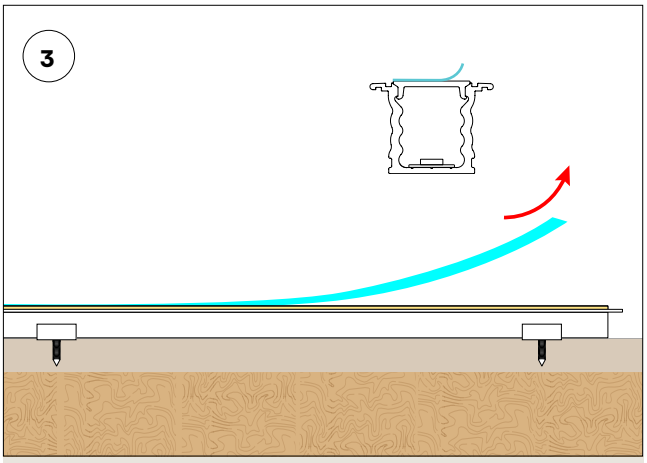


a. Secure clips using the #4 flat head screw provided.

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.

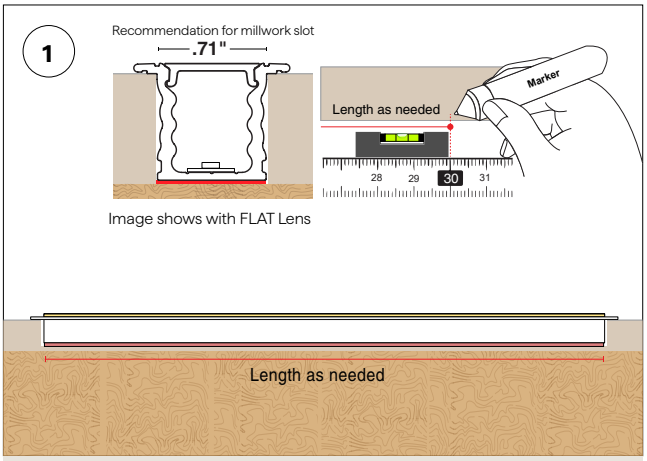


Remove protective film from the surface of the fixture's lens.

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

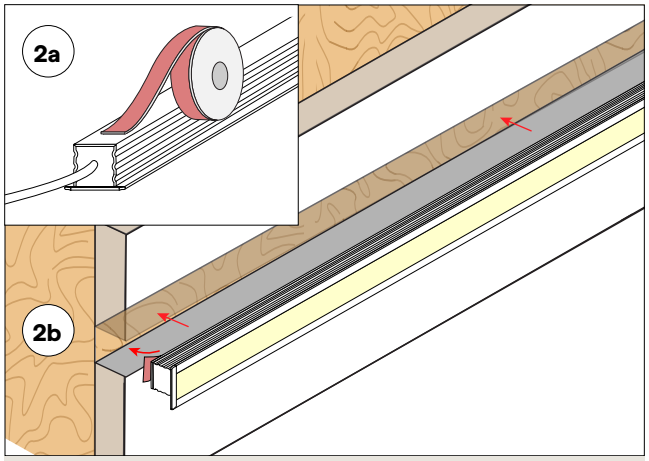
SURFACE MOUNTING METHOD: **MILLWORK VHB ADHESIVE MOUNT**

BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength. **(page 4)**



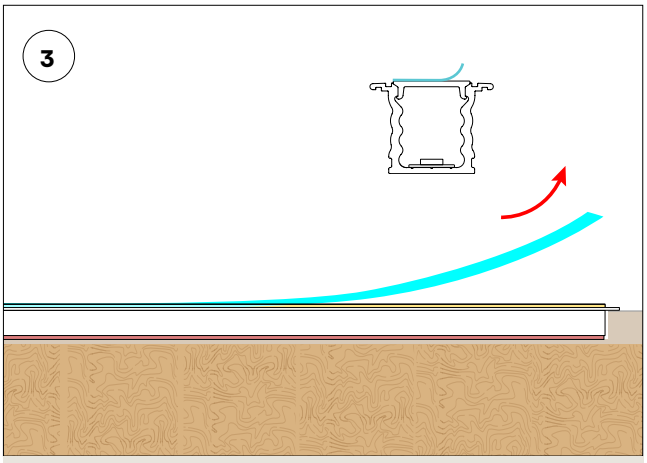
Determine the FLUR fixture(s) location and positioning on desired surface before adhering fixture to surface. Make any necessary reference markings to indicate fixture placement.

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).



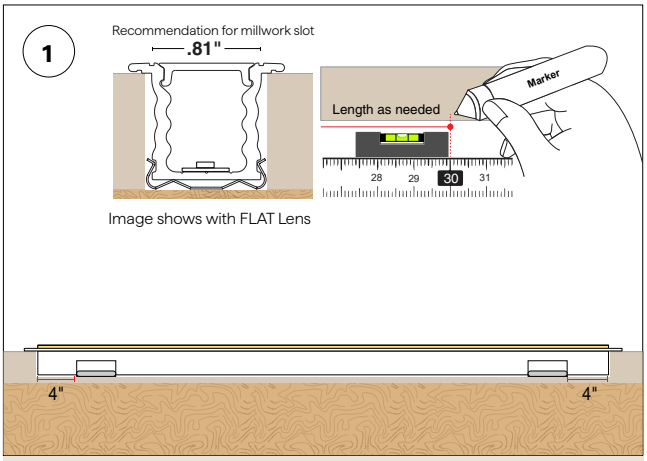
Remove protective film from the surface of the fixture's lens.

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.*

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

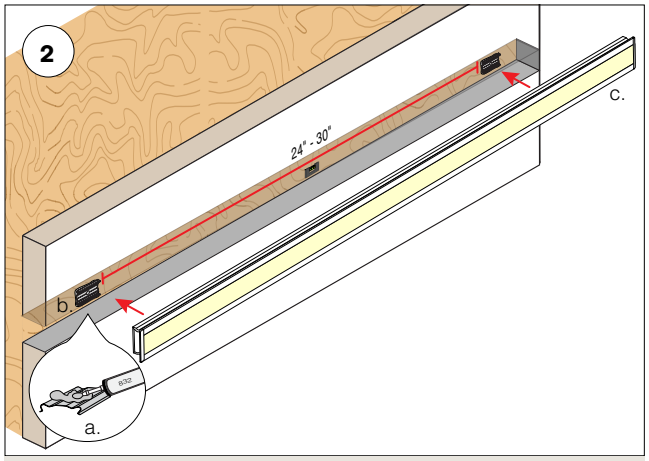
RECESSED MOUNTING METHOD: **MILLWORK SILICONE**

- Apply silicone in well ventilated area



Determine the FLUR 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.

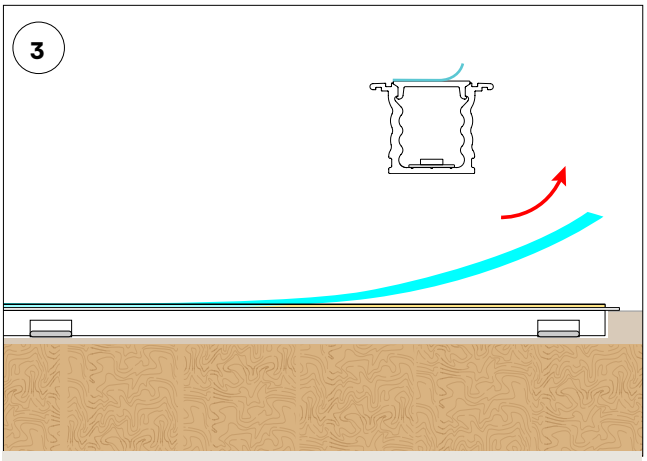


a. Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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.

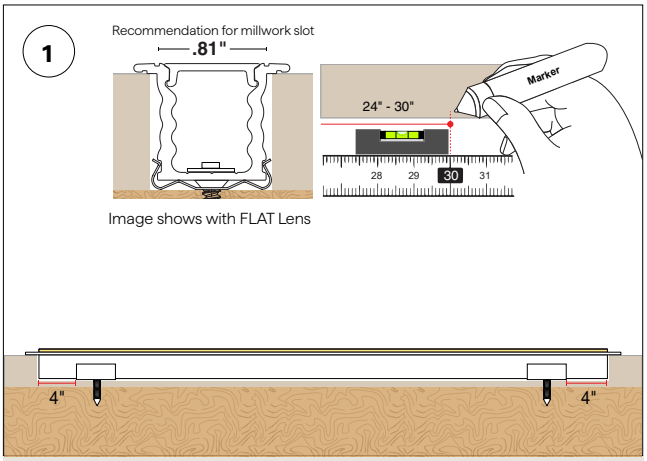


Remove protective film from the surface of the fixture's lens.

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

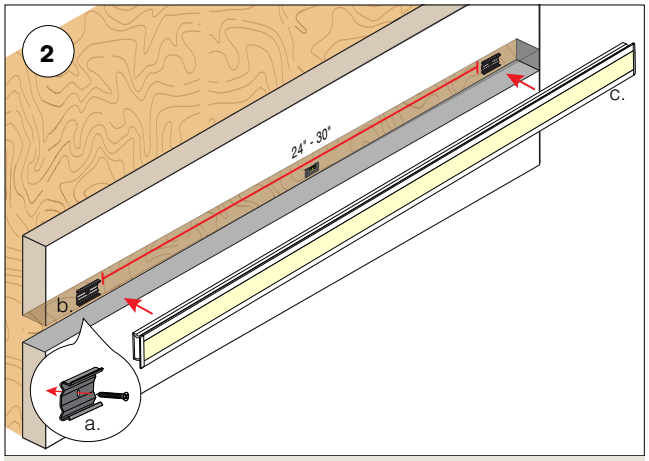
RECESSED MOUNTING METHOD: **MILLWORK SCREW MOUNT**

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



Determine the FLUR 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.

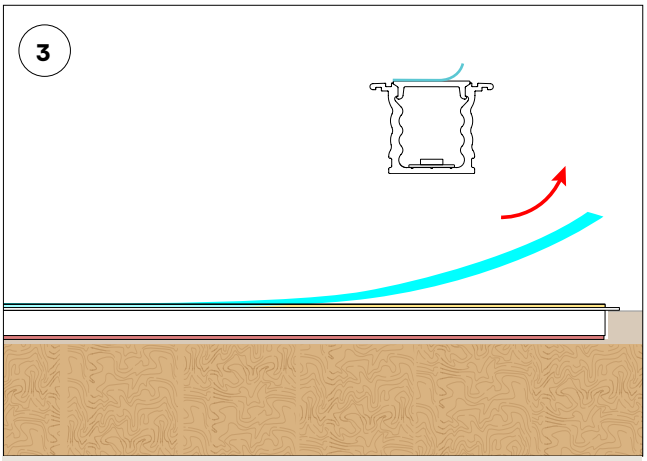


a. Mount the #4 flat head screw into the clip.

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.

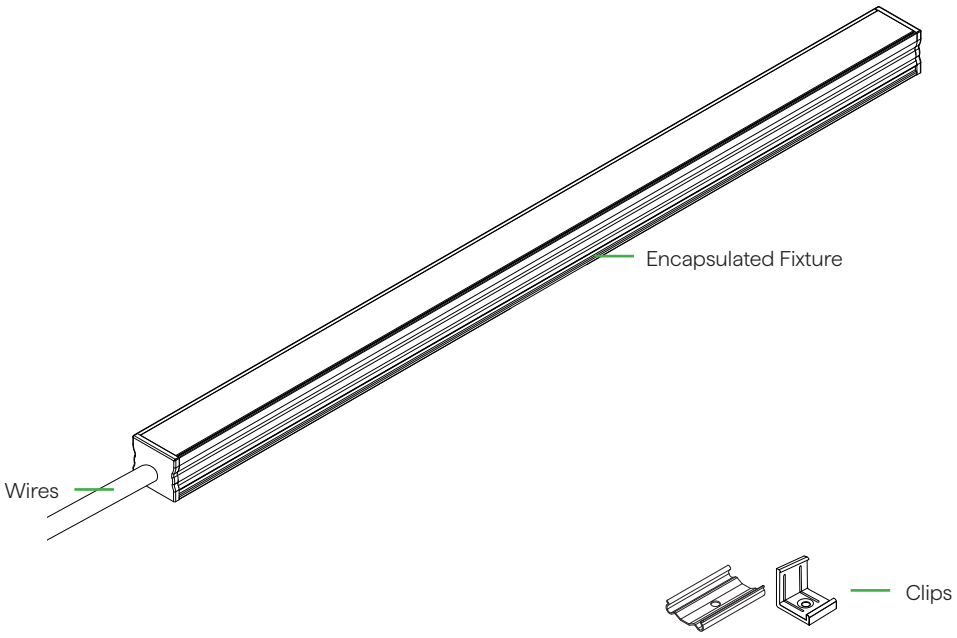
© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

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

© 2024 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting