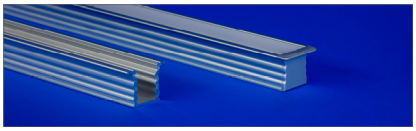
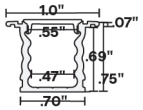
FLUR™

Field Assembled Extrusion - Recessed

SEE THIS EXTRUSION AS A FACTORY BUILT FIXTURE ▶





- Flanged extrusion for surface or recess mounting
- Combine with White Optics to increase light output between 5-47%*

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

Sample Part Number: **FLUR-BK-SST-PR-NI-48"**

1 PRODUCT

FLUR
FLUR-WO

WO - WhiteOptics (Internal coating, greater lumen output)

2 FINISH

ST	Satin
BK	Black
CU	Custom Color

Custom finishes require a longer lead time, consult factory

3 MOUNTING

SST	Stainless Steel

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

4 LENS

DF	Diffused
PR	Polar
FR	Frosted

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+)	SHIELD STATIC WHITE (SHLD-SW)	DYNAMIC WHITE HIGH EFFICACY (DW-HE)	WARM DIM (WD)	STATIC COLOR (SC)	RGB	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, 2.5, 4.0	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ 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: 4.0
ENC	✓ 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: 5.0	✓ W/FT: 6.0	✓ W/FT: 4.0
WET	✓ W/FT: 1.5, 3.0, 4.0, 5.0	✓ W/FT: 1.0, 2.0, 4.0			✓ W/FT: 1.5, 3.0, 5.0			✓ W/FT: 5.0		

Field modifications must comply with QTL's installation methods otherwise warranty is null & void | Recess mount with adhesive only | Painted end caps match the extrusion finish and have a white painted interior. Satin end caps utilize a metallic paint. | Patent # D798,471 S

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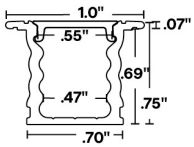
Specification subject to change. Rev-04-20-26

FLUR™

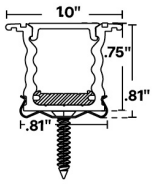
Field Assembled Extrusion - Recessed

SEE THIS EXTRUSION AS A FACTORY BUILT FIXTURE ▶

1 PRODUCT - DIMENSIONS



Profile

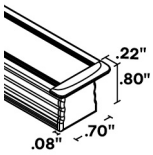


Profile with stainless steel mounting clip and mounting tray

END CAPS

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

Flat end caps



No feed

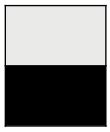
To order separately, use FLUR-EC

WHITEOPTICS® PHOTOMETRICS

[Calculated L70(6k) - 70000 hours] Tested with SW24/5.0-DRY-30

	FLUR LM/FT		FLUR-WO LM/FT		FLUR-WO Lumen Increase	
	Satin	Black	Satin	Black	Satin	Black
Frosted	259	196	286	258	10%	32%
Polar	227	163	266	230	17%	41%
Diffused	198	127	219	187	11%	47%

2 FINISH



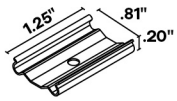
Satin

Black

Custom finishes require a longer lead time, consult factory

3 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 SS

4 DIODE VISIBILITY



DF - Diffused lens

PR - Polar lens

FR - Frosted lens

PHOTOMETRIC PERFORMANCE

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



45°

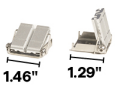
COMPATIBLE ACCESSORIES

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

VHB



Double sided mounting tape

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FLUR LUMEN MULTIPLIER

LUMEN MULTIPLIER FORMULA

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

Example: **172 lm/ft x 0.66 = 113 lm/ft**

SW24/1.5 at 3000K x FLUR Extrusion in Satin with FR Lens

Diode free or near Diode free

SW			
LENS	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
FR	0.66	0.51	N/A
PR	0.54	0.38	N/A
DF	0.45	0.28	N/A
ENC/CL	0.45	0.25	N/A
ENC/TL	0.29	0.12	N/A
45°	0.68	0.55	N/A
60°	0.69	0.55	N/A
80°	0.73	0.58	N/A

SW-HE			
LENS	Finish		
	Satin (ST)	Black (BK)	Bronze (BZ)
FR	0.68	0.50	N/A
PR	0.61	0.44	N/A
DF	0.40	0.30	N/A
ENC/CL	0.46	0.25	N/A
ENC/TL	0.30	0.13	N/A
45°	0.70	0.53	N/A
60°	0.71	0.54	N/A
80°	0.75	0.57	N/A

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

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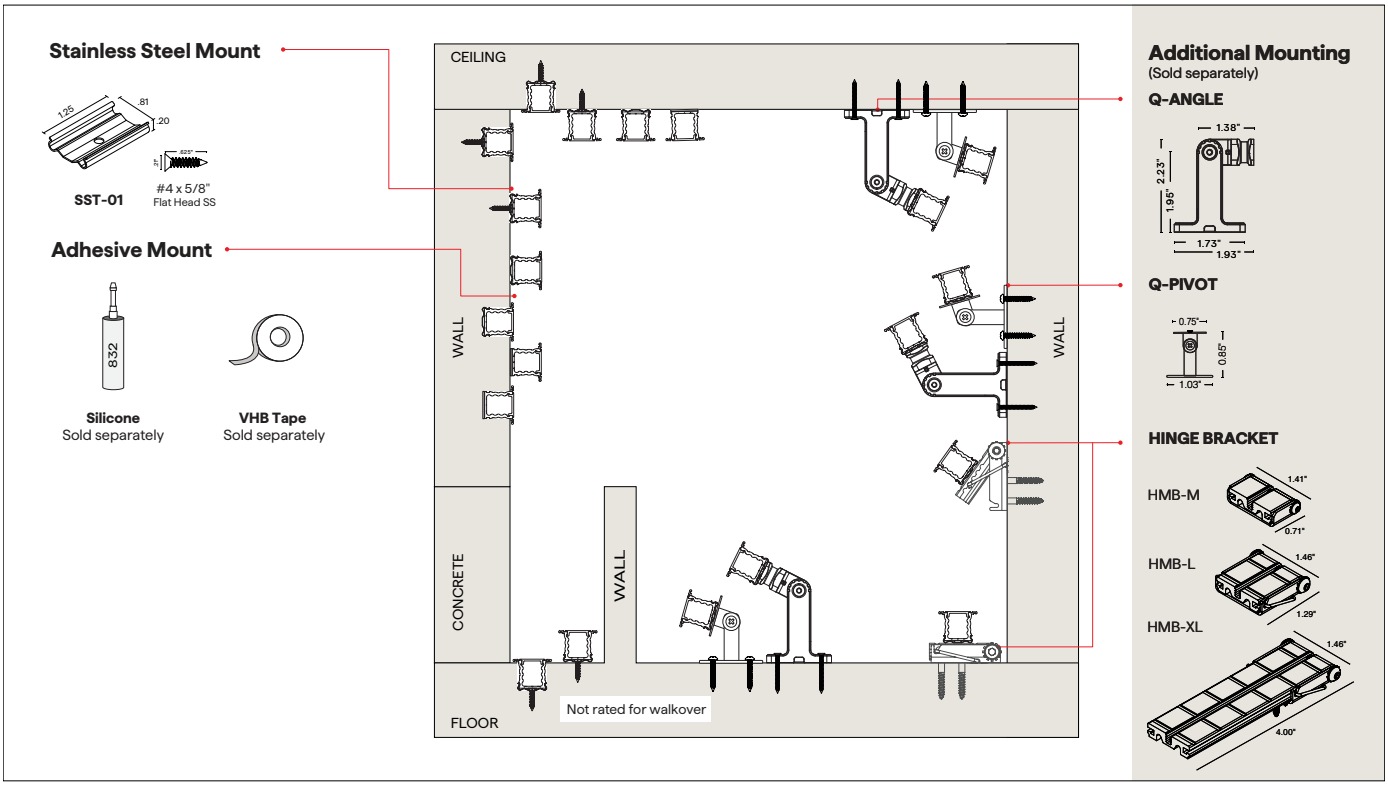
FLUR

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 or recessed in millwork
- 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

- VHB Mount (page 8-9)
- Silicone Mount (page 10)
- Screw Mount (page 11)

RECESSED MOUNTING METHOD

- VHB Mount : Millwork (page 12)
- Silicone Mount : Millwork (page 13)
- Screw Mount : Millwork (page 14)

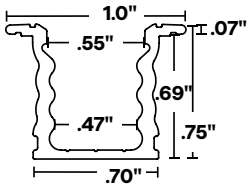
NOTES:

- *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.*

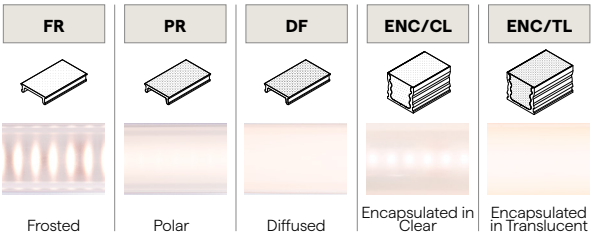
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FLUR

Field Assembled Extrusion Installation Instructions



FLUR Profile

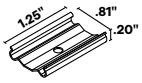


Frosted | Polar | Diffused | Encapsulated in Clear | Encapsulated in Translucent

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

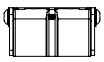
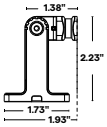


Image shows HMB-M

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

Q-PIVOT; sold in pairs

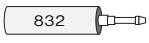


Q-PIVOT

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

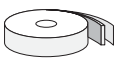
ADHESIVE SOLD SEPARATELY

SILICONE



DOWSIL 832

VHB TAPE; sold in 15' increments

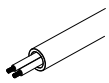


TAPE-VHB-IP20

CONNECTOR/WIRE - IN/OUT;

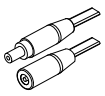
Bare wire can be trimmed to length as needed.

BARE WIRE 24"



BW

BARREL 6"



BRL

CONNECTOR 6"



CON6

CONNECTOR 24"

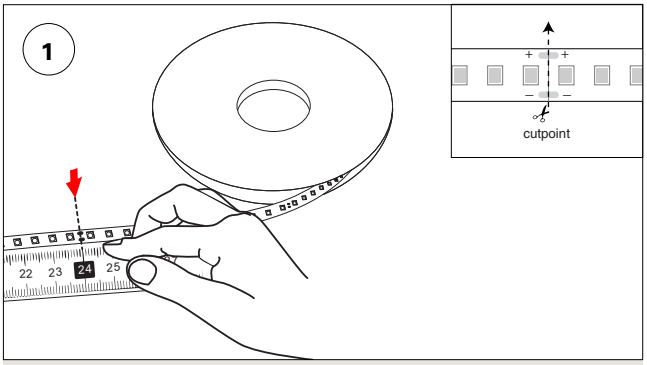


CON24

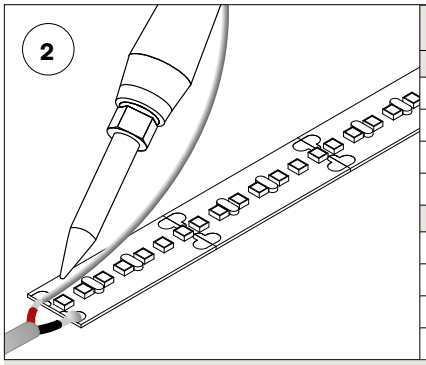
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LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DRY IP20**

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.

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

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

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

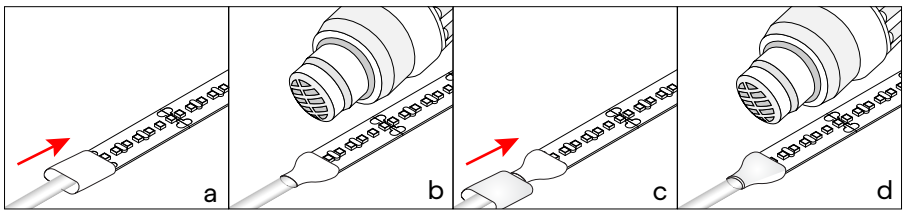
WD — LEAD WIRE
- Black= Negative
- Red = +24V

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

SHLD-SW
- Red = +24V
- Black = Negative

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.

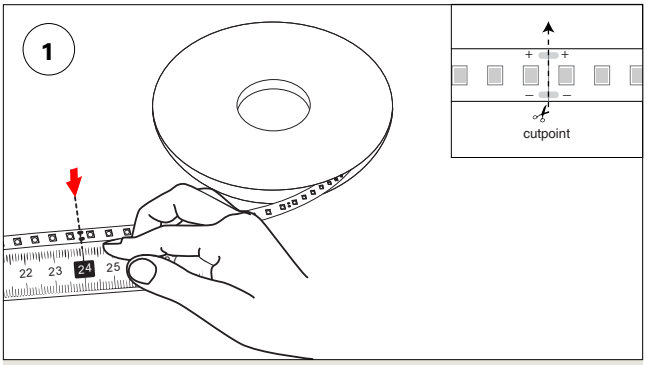
NOTES:

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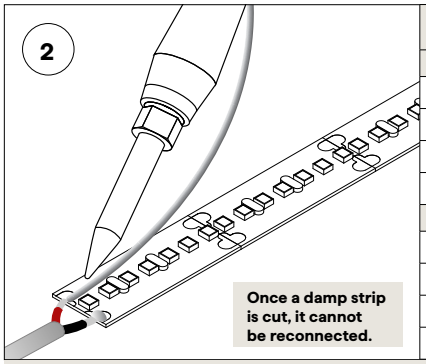
LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

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.

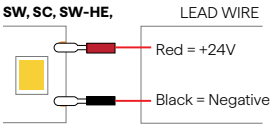
- Carefully peel polyurethane back to expose the solder pads.

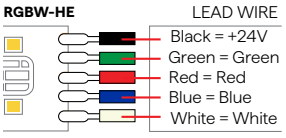


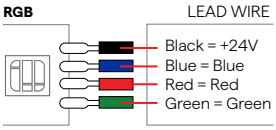
ITEMS INCLUDED
iQ-LED-24-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
iQ-JUMP-6-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube

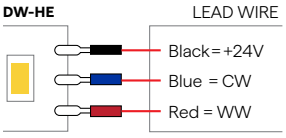
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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



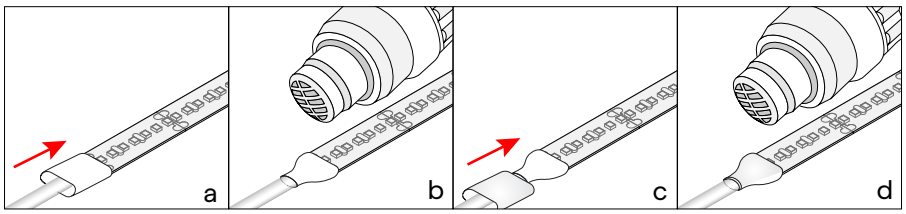






3

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.

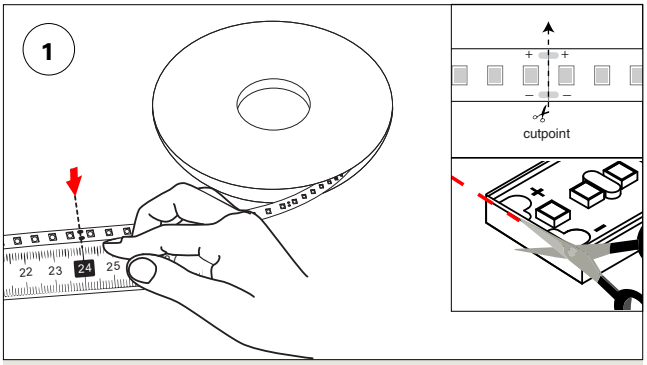
NOTES:

- *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.*

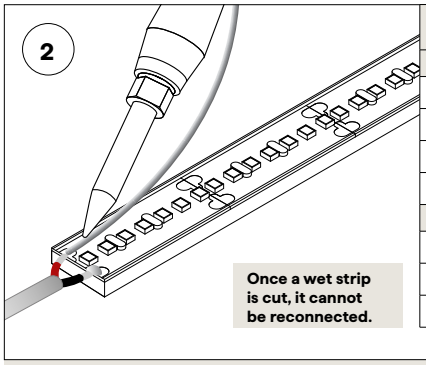
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LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **WET IP67**

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.

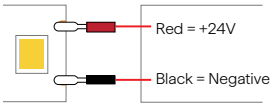


ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

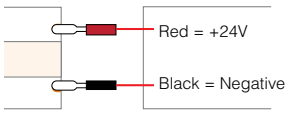
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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

SW, SC

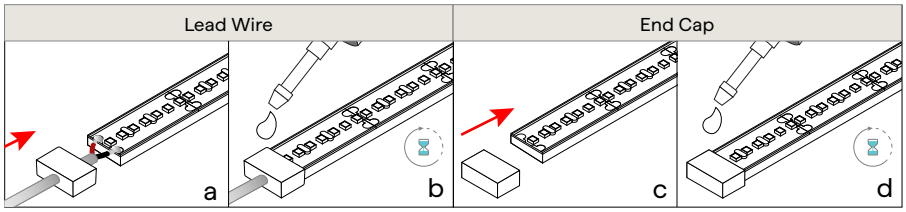


SHLD-SW



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.

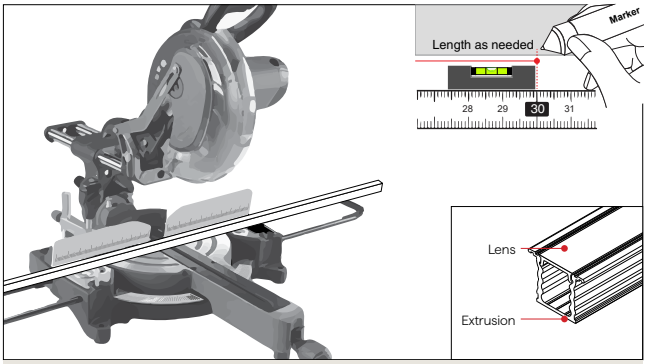
NOTES:

- *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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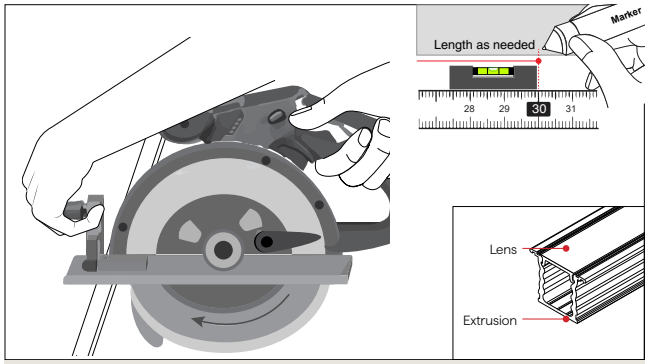
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

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.

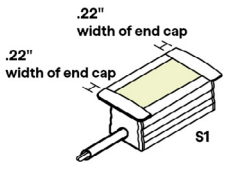
OR



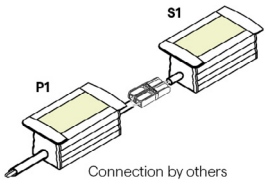
For straight runs, measure LED extrusion to desired length and cut it with a circular saw.

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

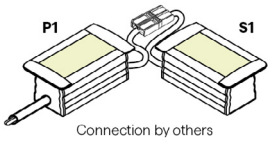
CONFIGURATION OPTIONS



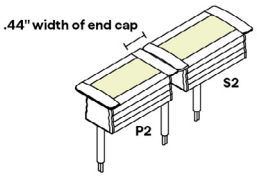
Single End Feed



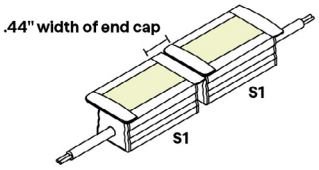
Non-Continuous End Feed



Non-Continuous Corner Feed



Non-Continuous Bottom Feed



Non-Continuous End to End Feed

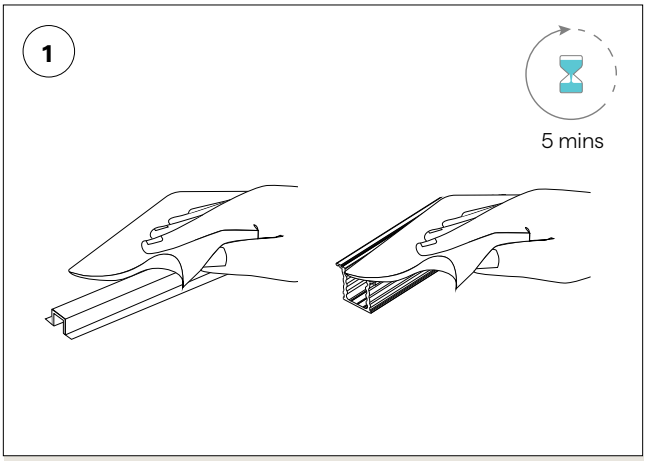
Review wire method to ensure clean installation prior to mounting finished Fixture.

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

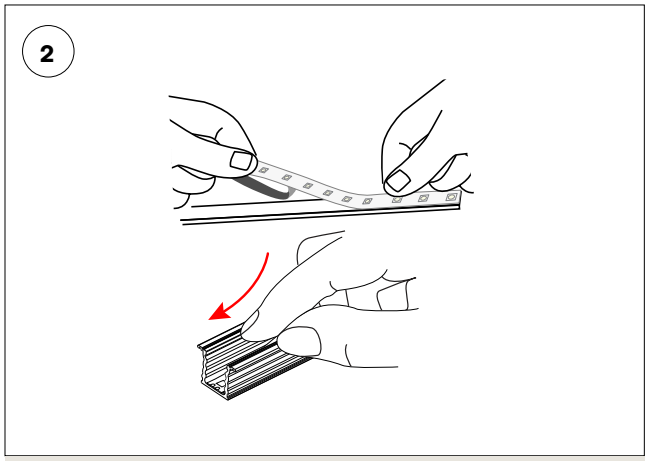
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LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION

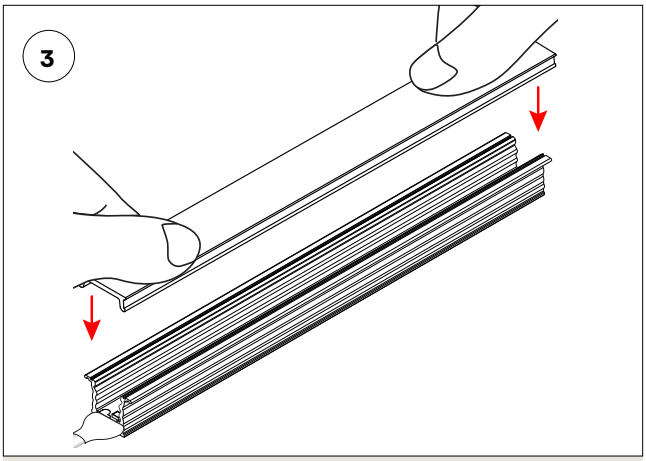
STRIP IN EXTRUSION



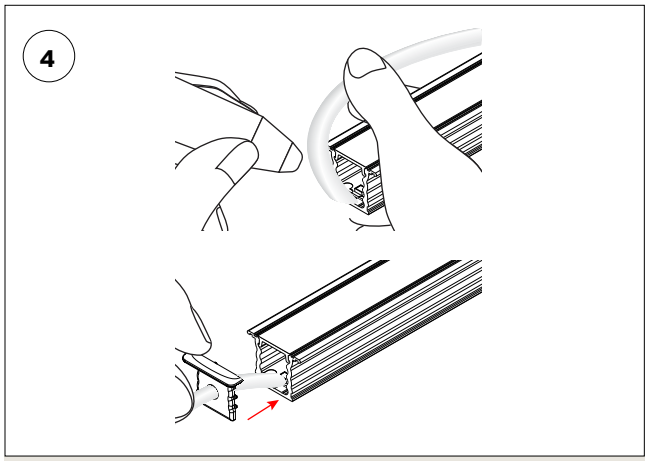
Using a 50/50 alcohol mix throughly clean, the surface of the extrusion and the multi-tray surface. Allow time to dry (about 5 minutes).



Gently place LED in extrusion/tray. Apply firm pressure to the bonding surface. This will reduce the chances of dust and debris from contaminate adhesive. The smallest amount of exposed adhesive is the best case.



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



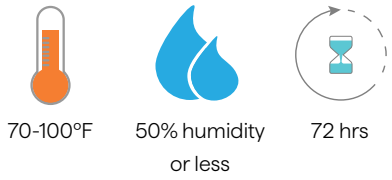
Add glue inside the end cap and glue around edges to secure end cap in place. Do not allow glue to come in contact with LED.

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SURFACE MOUNTING METHOD

SURFACE PREPARATION

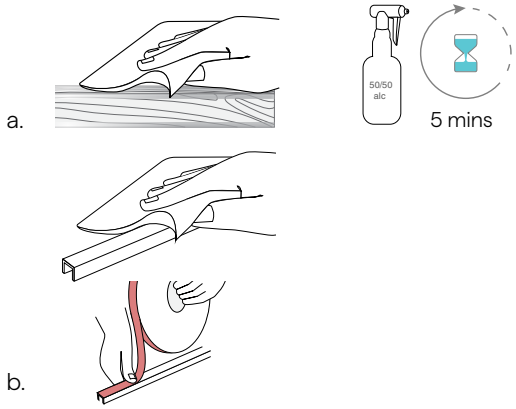
1



Temperature and environmental concerns:

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

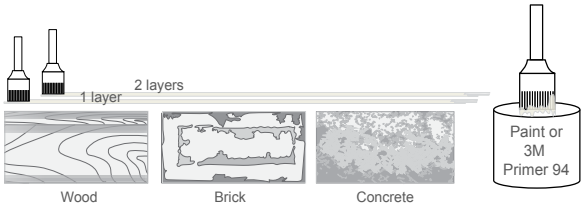
2



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

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

3



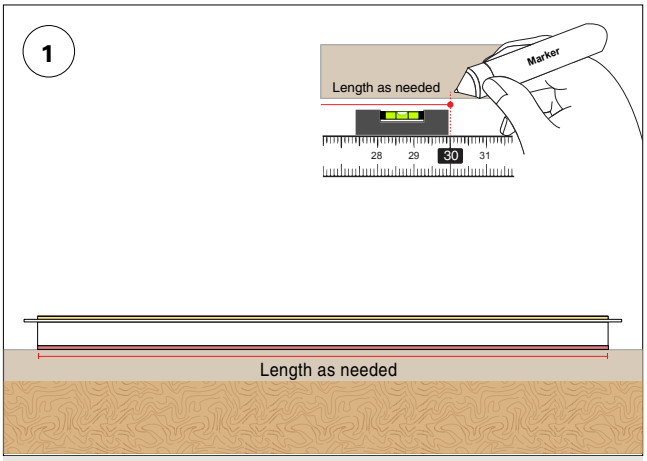
For porous materials (Wood, Brick, Concrete etc.) apply two layers of paint or primer to the surface. This will help create a better bonding surface for these materials. These can be purchased from a local hardware store.

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

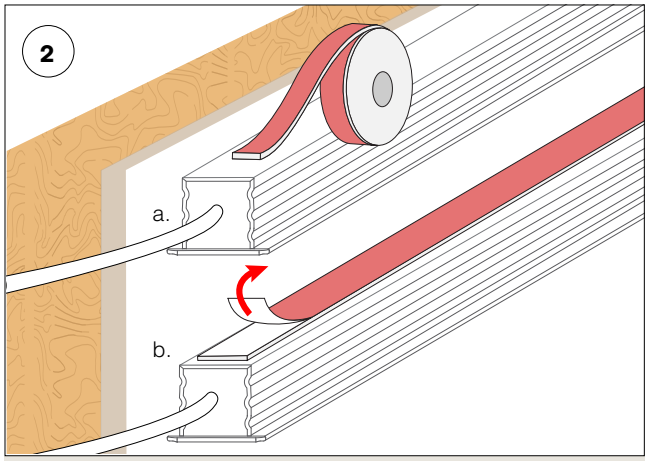
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SURFACE MOUNTING METHOD: **VHB ADHESIVE MOUNT**

BEFORE installation, the surface must be thoroughly cleaned and dried for maximum bond strength. (page 8)

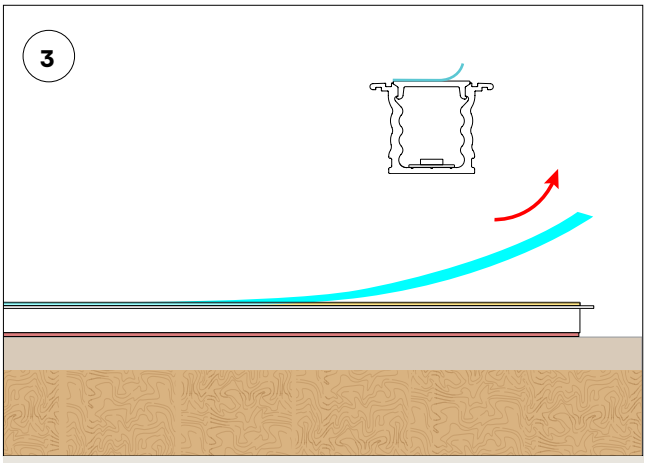


Determine the FLUR fixture(s) location and positioning on desired surface before adhering Fixture to surface. Make any necessary reference markings to indicate fixture placement.



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).



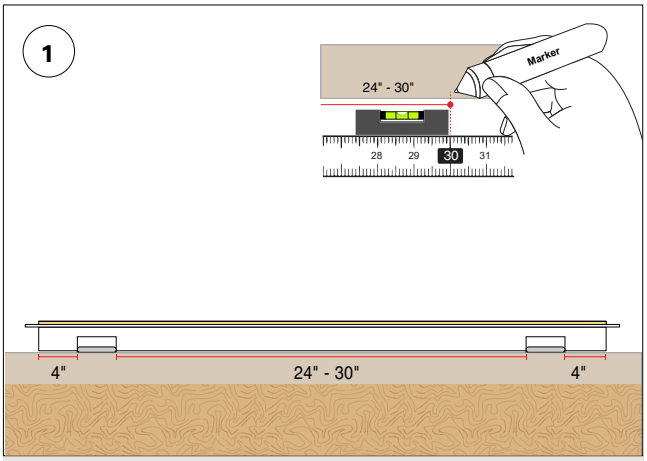
Remove protective film from the surface of the fixture's lens.

NOTES: *EPOXY ALTERNATIVE: For improved bonding strength, apply a small amount of epoxy at each end. Refer to table on* page 8 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

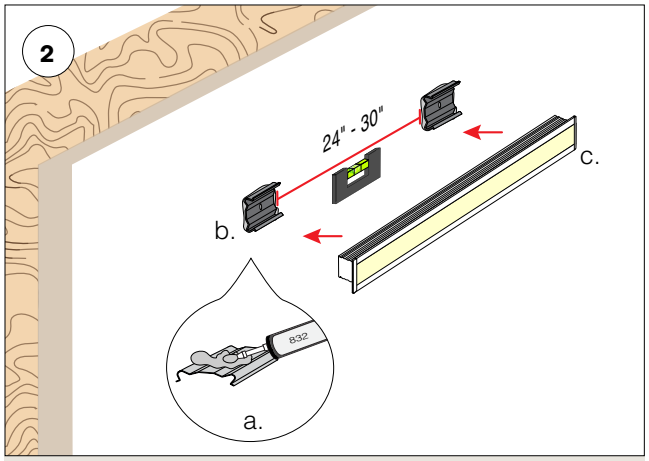
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SURFACE MOUNTING METHOD: **SILICONE**

- 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".

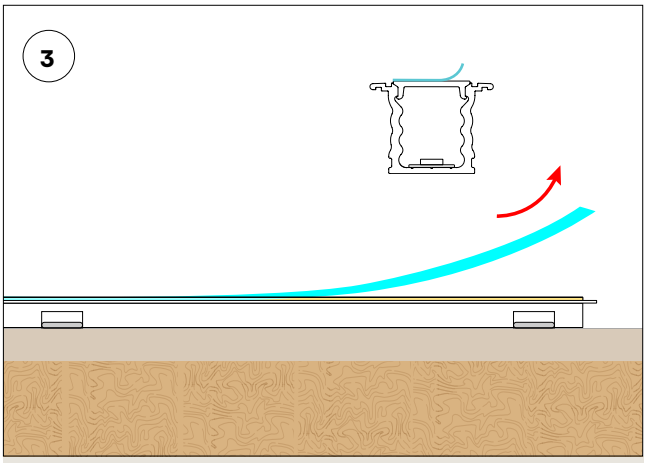


a. Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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.

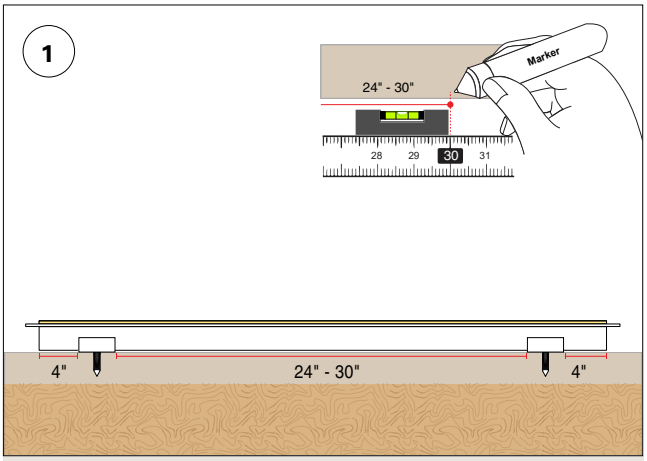


Remove protective film from the surface of the fixture's lens.

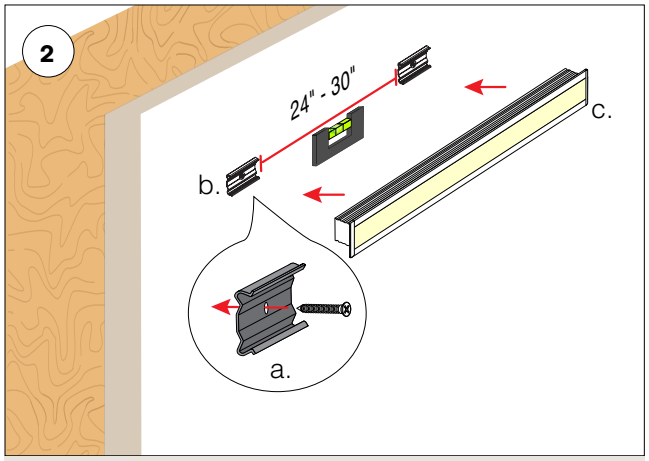
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SURFACE MOUNTING METHOD: **SCREW MOUNT**

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



Determine the 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".

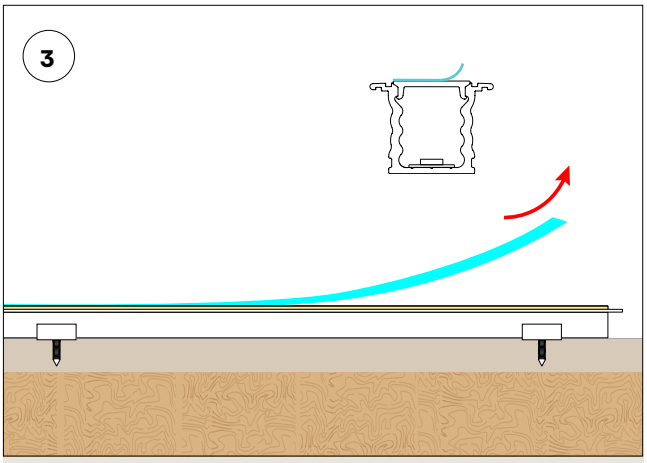


a. Secure clips using the #4 flat head screw provided.

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.

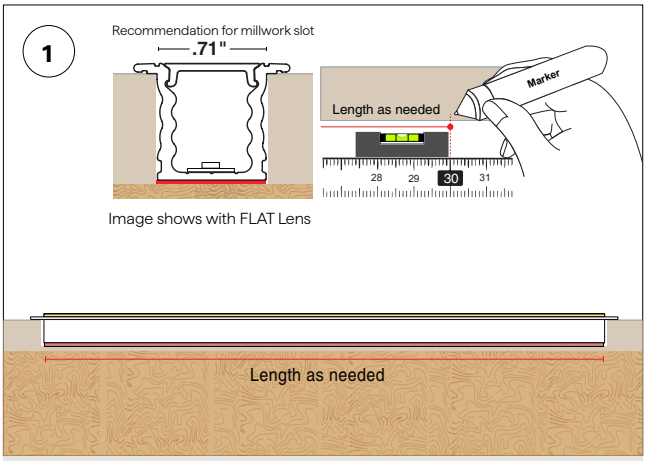


Remove protective film from the surface of the fixture's lens.

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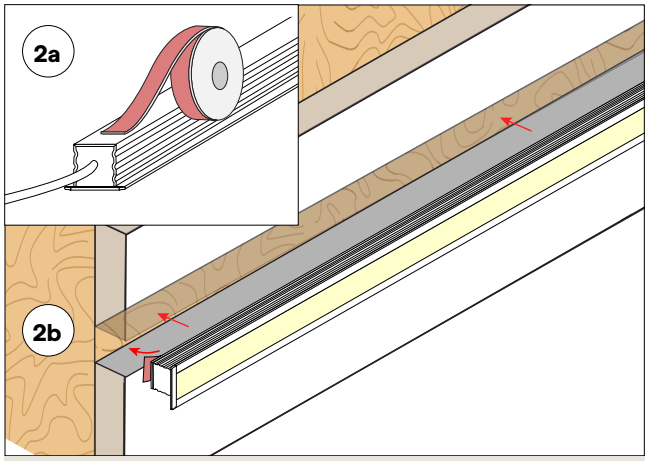
RECESSED MOUNTING METHOD: **MILLWORK VHB ADHESIVE MOUNT**

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



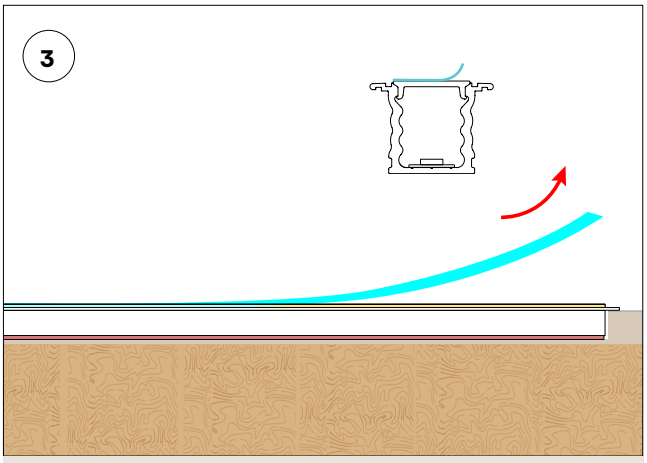
Determine the FLUR fixture(s) location and positioning on desired surface before adhering fixture to surface. Make any necessary reference markings to indicate fixture placement.

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 8 *for suggested epoxies. These can be purchased at a local hardware store. Please follow all manufacturer instructions for suggested epoxy.*

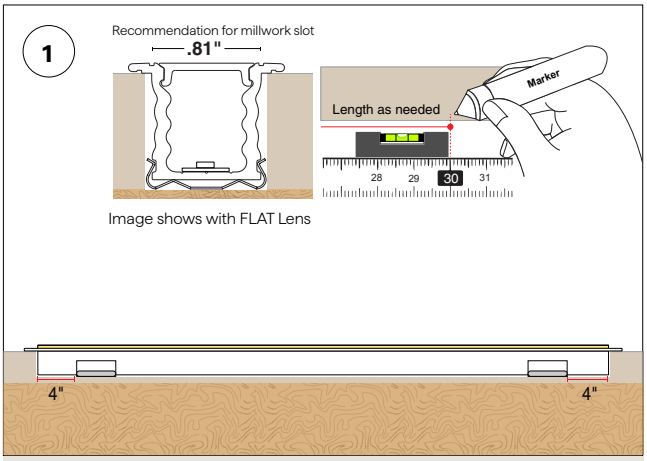
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FLUR

Field Assembled Extrusion Installation Instructions

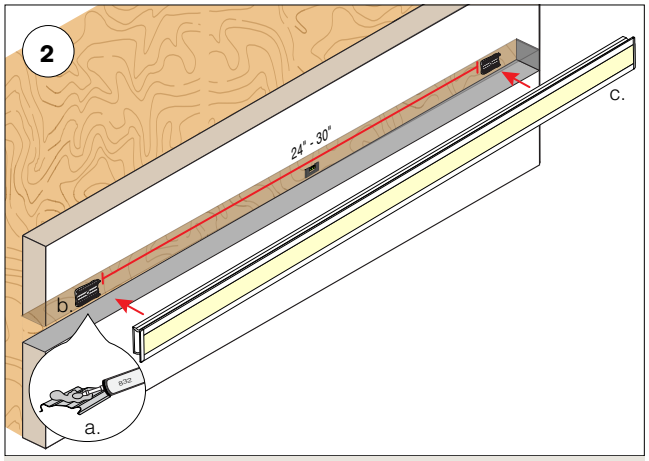
RECESSED MOUNTING METHOD: **MILLWORK SILICONE**

- 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.

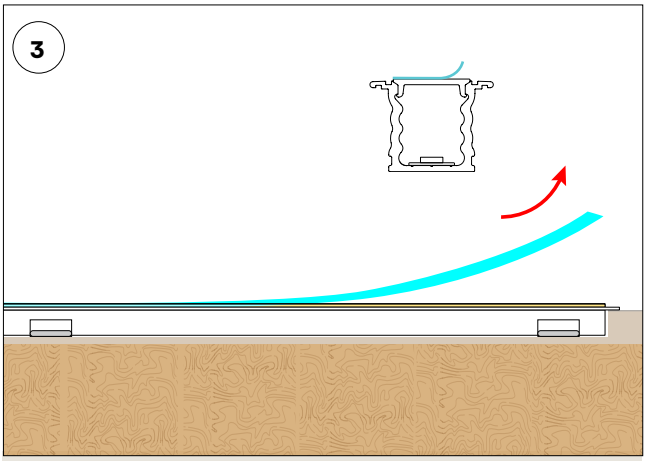


a. Coat the back of the clip with silicone adhesive and firmly press on to the marked reference points.

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.

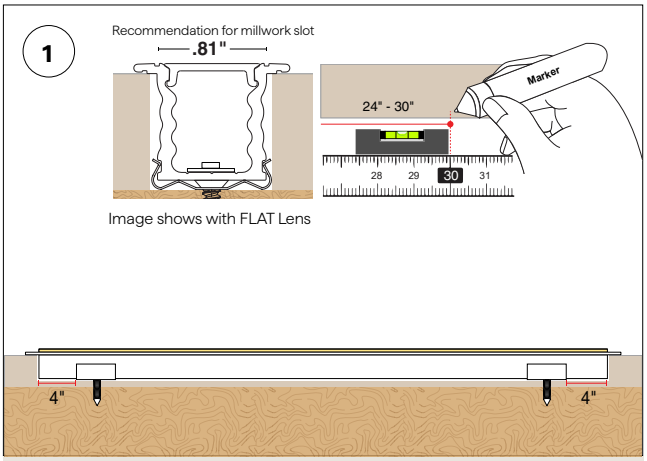


Remove protective film from the surface of the fixture's lens.

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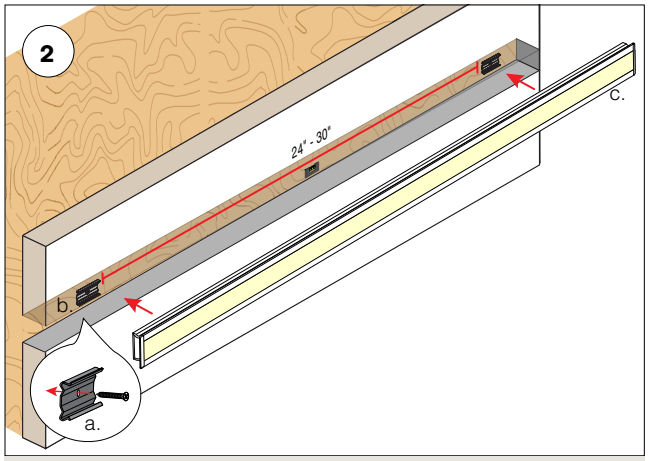
RECESSED MOUNTING METHOD: **MILLWORK SCREW MOUNT**

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



Determine the 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.

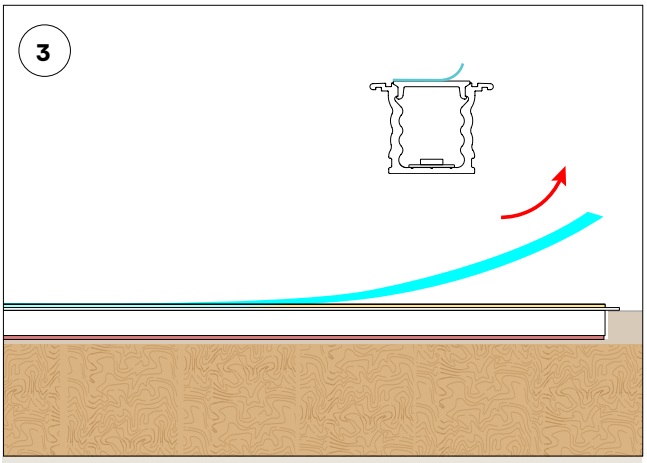


a. Mount the #4 flat head screw into the clip.

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.

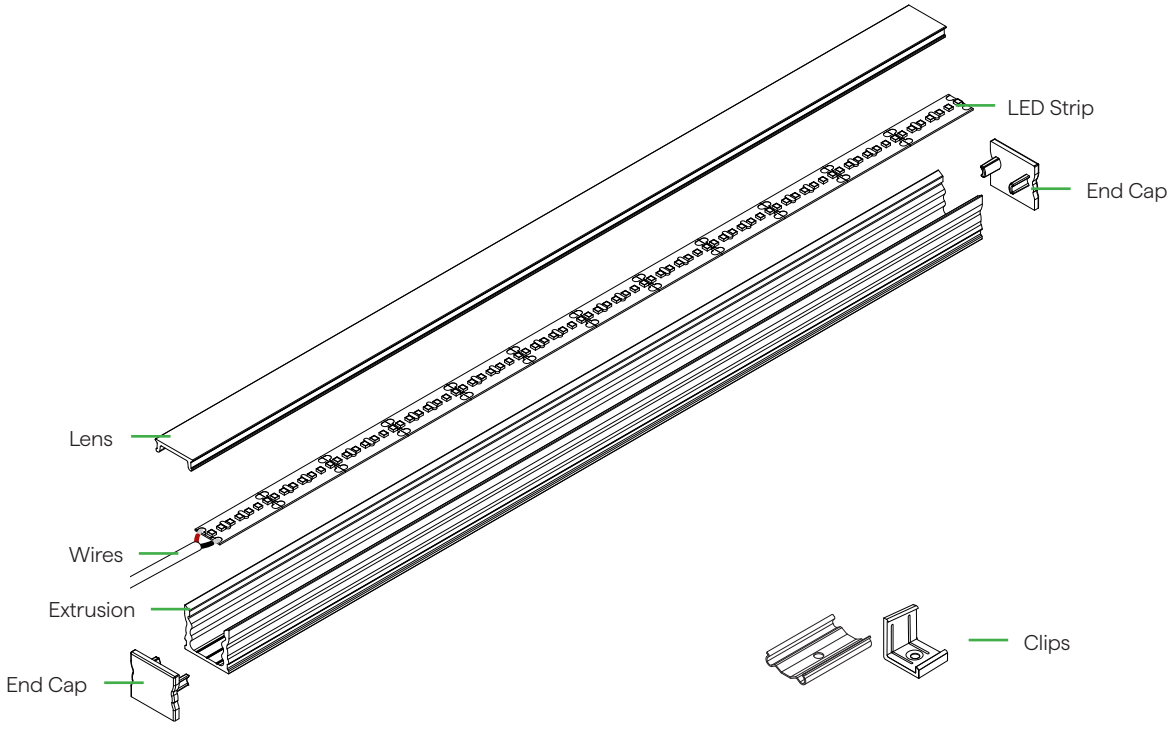
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MATERIAL RECYCLING

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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