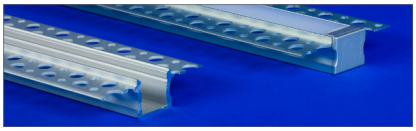
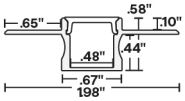
MDIN

Field Assembled Extrusion - Recessed





- Flush installation LED aluminum extrusion
- Designed to be placed within a drywall application, with its 'wings' then covered with tape and mud for a seamless look
- Once inside the drywall, there's a very small nominal 1/10" reveal showing the light so it is nearly flush

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

Sample Part Number: **MDIN-ST-SST-DF-NI-48"**

1 PRODUCT

MDIN

2 FINISH

ST Satin
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

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	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	✓ W/FT: 3.0, 6.0	✓ W/FT: 1.5, 3.0, 5.0	✓ W/FT: 1.5, 2.5	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ W/FT: 6.0	✓ W/FT: 6.0	✓ W/FT: 4.0
DMP	✓ W/FT: 1.5, 3.0, 4.0, 5.0		✓ W/FT: 1.5, 3.0, 6.0			✓ W/FT: 1.5, 2.5	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ W/FT: 6.0	✓ W/FT: 6.0	✓ W/FT: 4.0
ENC											
WET	✓ W/FT: 1.5, 3.0, 4.0, 5.0	✓ W/FT: 1.0, 2.0, 4.0		✓ W/FT: 3.0, 6.0	✓ W/FT: 1.5, 3.0, 5.0	✓ W/FT: 1.5, 2.5	✓ W/FT: 6.0	✓ W/FT: 5.0	✓ W/FT: 6.0		✓ W/FT: 4.0

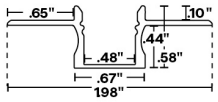
Field modifications must comply with QTL's installation methods otherwise warranty is null & void | Recess mounted with adhesive only | Painted end caps match the extrusion finish and have a white painted interior. Satin end caps utilize a metallic paint.

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

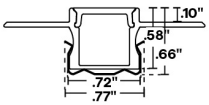
MDIN

Field Assembled Extrusion - Recessed

1 PRODUCT - DIMENSIONS



Profile

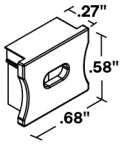


Profile with stainless steel mounting clip

END CAPS

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

Flat end caps



Feed

To order separately, use MDIN-S-EC

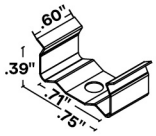
2 FINISH

Satin

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-05

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

4 DIODE VISIBILITY

DF - Diffused lens

PHOTOMETRIC PERFORMANCE

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

DF



Diffused 117°

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

MDIN-S LUMEN MULTIPLIER

LUMEN MULTIPLIER FORMULA

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

Example: **172 lm/ft x 0.51 = 87 lm/ft**

SW24/1.5 at 3000K x MDIN-S Extrusion in Satin with DF Lens

Diode free or near Diode free

SW			
LENS	Finish		
	Satin	Black	Bronze
	(ST)	(BK)	(BZ)
DF	0.51	N/A	N/A

SW-HE			
LENS	Finish		
	Satin	Black	Bronze
	(ST)	(BK)	(BZ)
DF	0.46	N/A	N/A

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

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

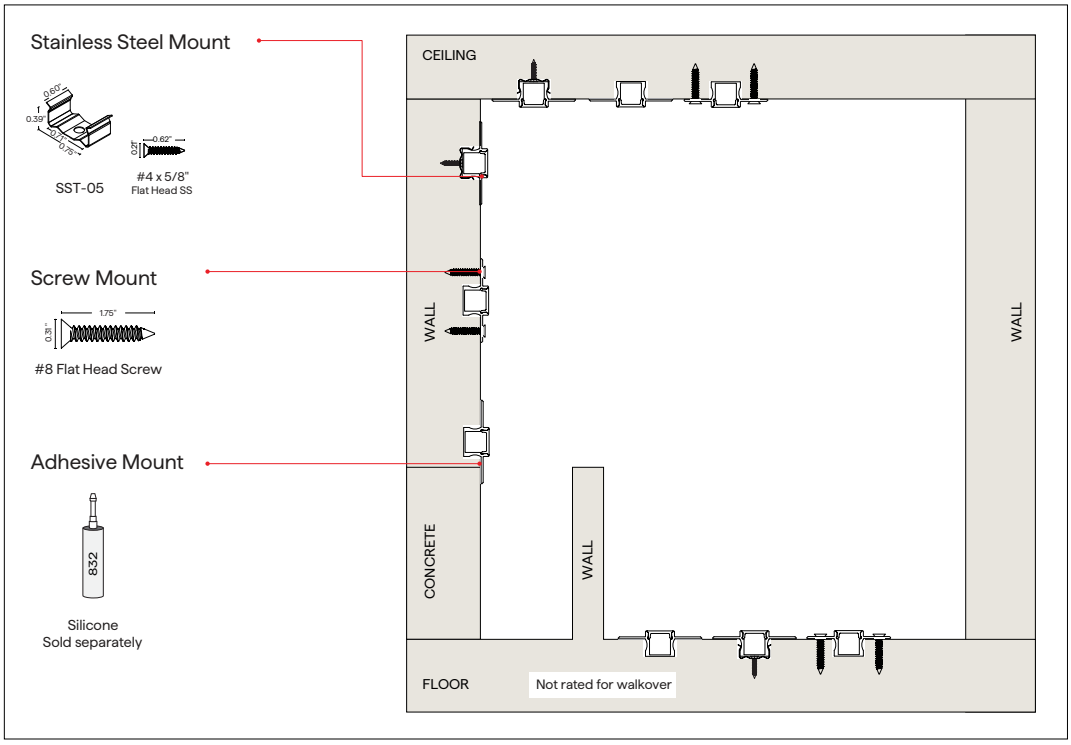
MDIN

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
- Recessed in millwork
- Suitable for DRY and DAMP 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:



RECESSED MOUNTING METHOD

Field Assembled

- Screw Mount Drywall (page 7–8)
- Screw Mount Clip (page 9–10)
- Silicone Mount (page 11–12)

Factory Assembled

- Screw Mount Drywall (page 13)
- Screw Mount Clip (page 14)
- Silicone Mount (page 15)

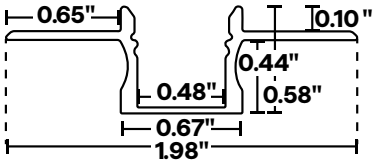
NOTES:

- *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.*

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

MDIN

Field Assembled Extrusion Installation Instructions



MDIN Profile

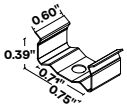
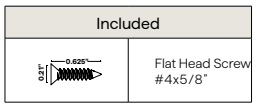
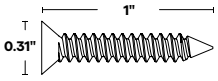
DF

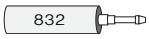
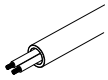
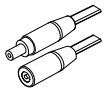


Diffused

COMPONENTS & HARDWARE

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

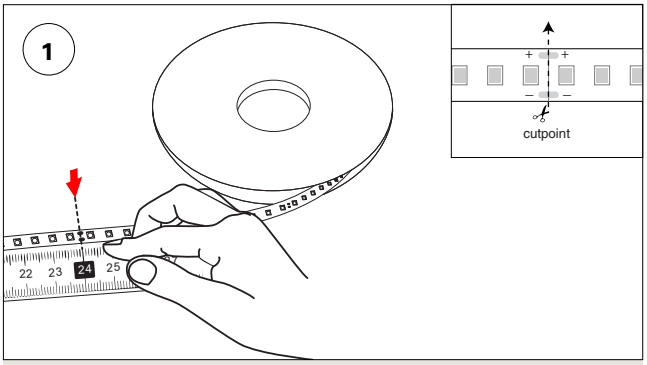
STAINLESS STEEL CLIP	#8x1" FLAT HEAD SCREW
 SST-05  Included: Flat Head Screw #4x5/8" • 2 clips provided for 4' or less; 4 clips provided for greater than 4'	 Included

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

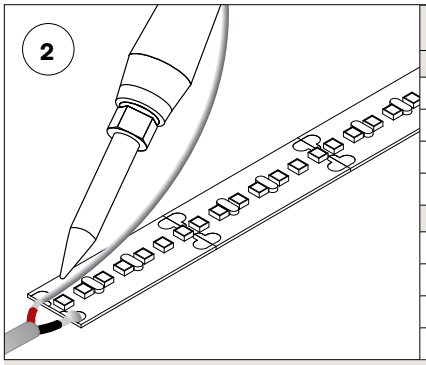
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

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

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



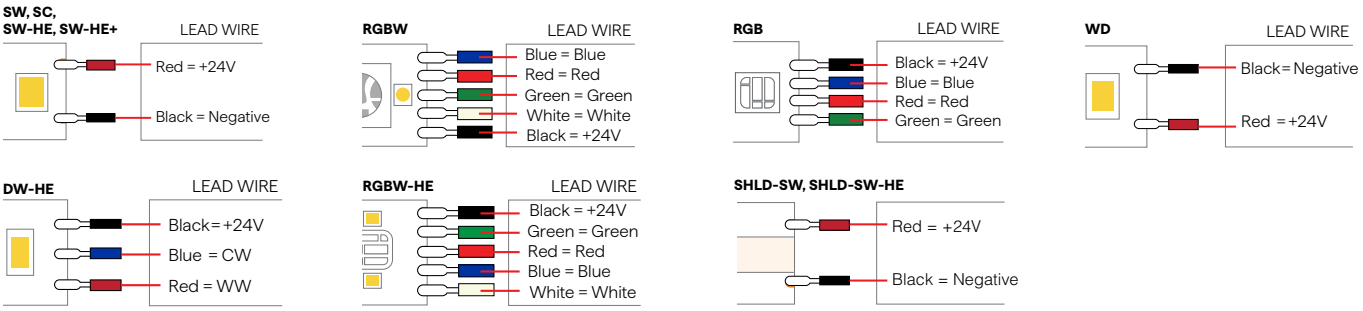
Measure and cut LED strip to desired length with scissors along the cut point.



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

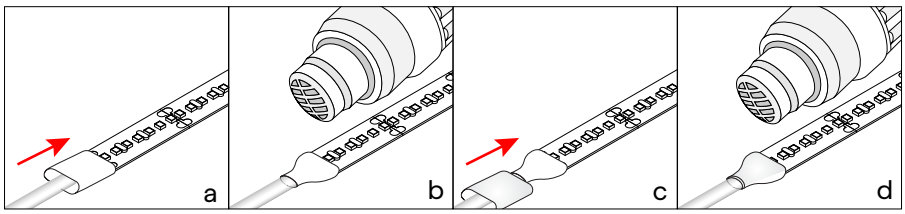
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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



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.*

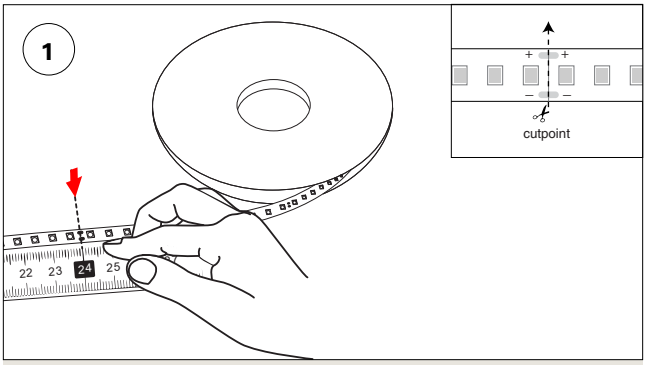
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

MDIN

Field Assembled Extrusion Installation Instructions

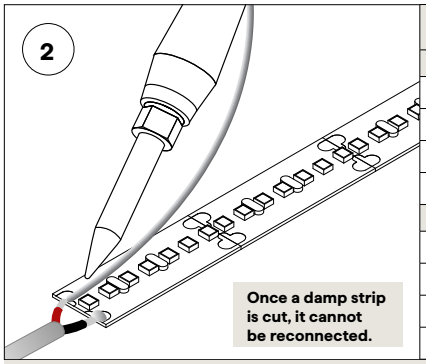
LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS: **DMP IP54**

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.

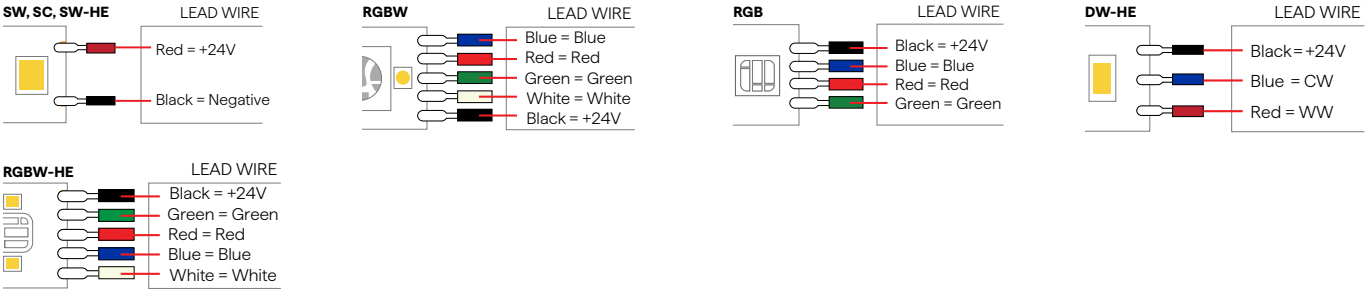
- Carefully peel polyurethane back to expose the solder pads.



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

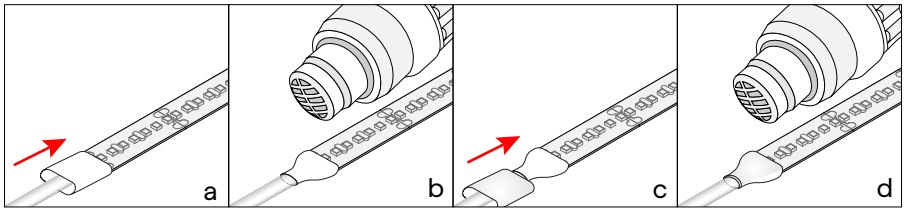
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

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.

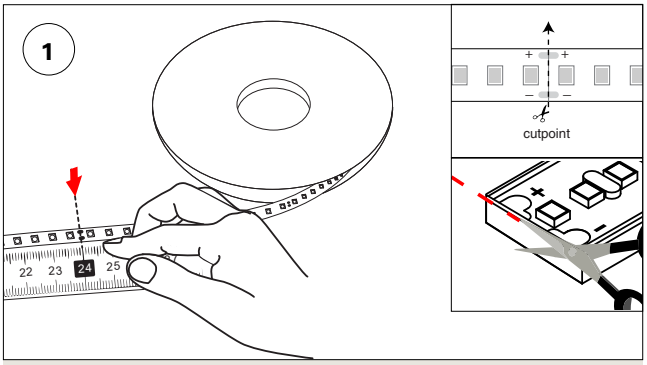
NOTES:

- *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.*

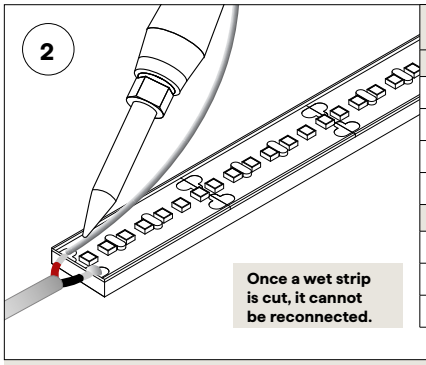
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

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

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



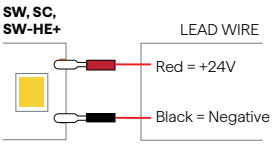
Measure and cut LED strip to desired length with scissors along the cut point.

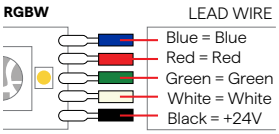


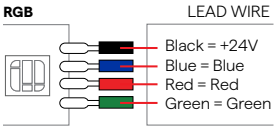
ITEMS INCLUDED
iQ-LED-67-KIT
(1) 24" Lead wire
(1) 6" Solder
(1) Lead wire cap
(1) End Cap
iQ-JUMP-67-KIT
(1) 6" Lead wire
(1) 6" Solder
(2) Lead wire Caps

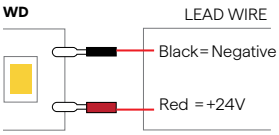
Solder lead wire onto solder pad. Confirm wires are matched up correctly before soldering. See wiring diagrams below for specific light engine details.

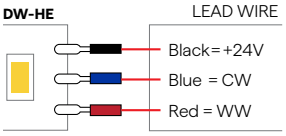
NOTE: Recommended soldering iron temperature of 650˚ – 700˚F for lead-free solder.

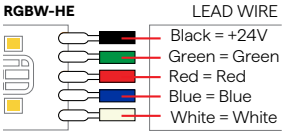


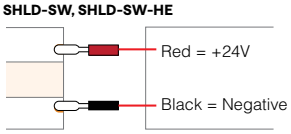






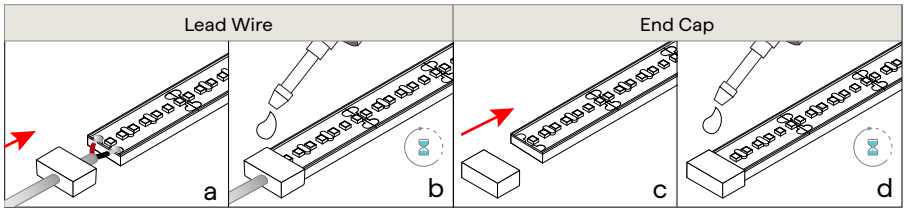






3

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.*

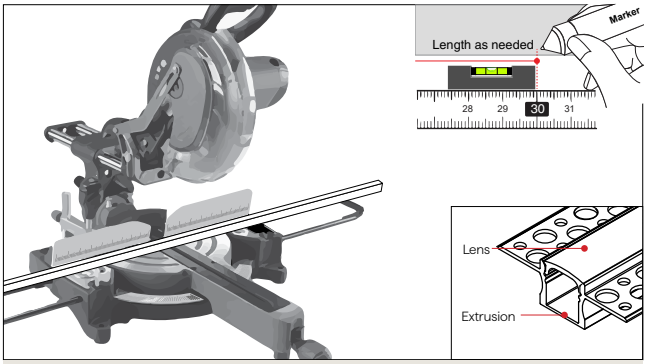
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

MDIN

Field Assembled Extrusion Installation Instructions

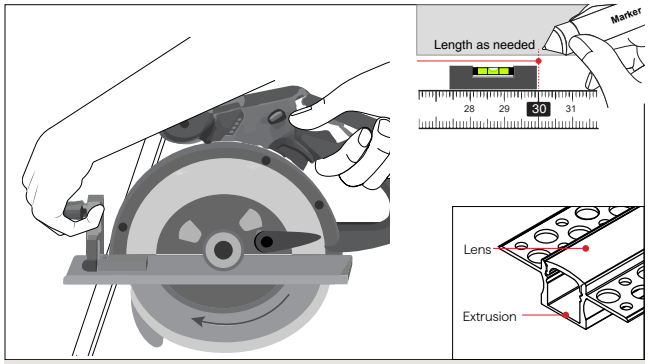
CUTTING EXTRUSIONS FOR IN-FIELD ASSEMBLY INSTALLATION

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.

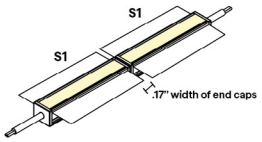
OR



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.

CONTINUOUS WIRING CONFIGURATION OPTIONS



Continuous End to End Feed

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

NOTE: Additional wire methods include:
S1: Connector/Wire Input only

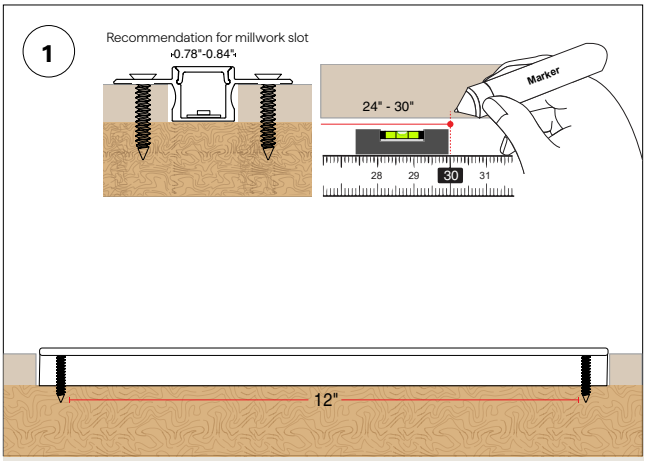
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

MDIN

Field Assembled Extrusion Installation Instructions

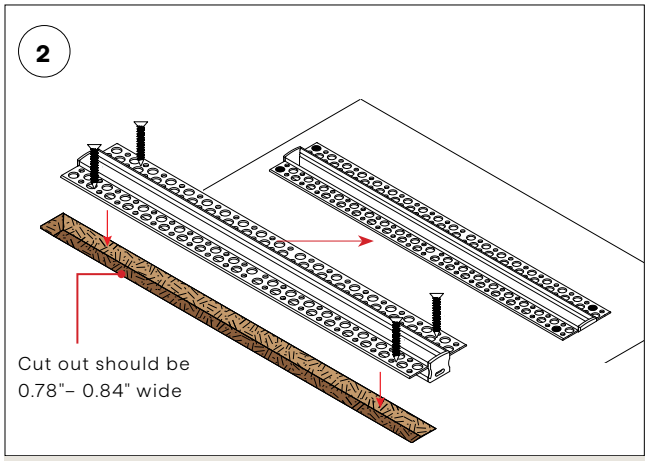
FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT DRYWALL MILLWORK**

- 2 screws per every 12"



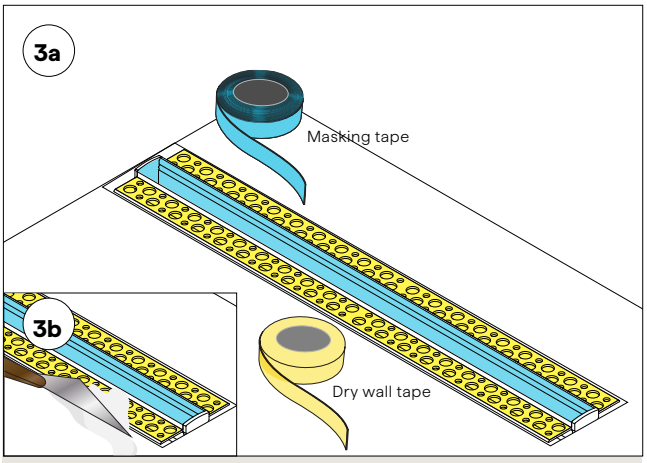
Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.

NOTE: Mount the extrusion into 1/2" or larger of drywall



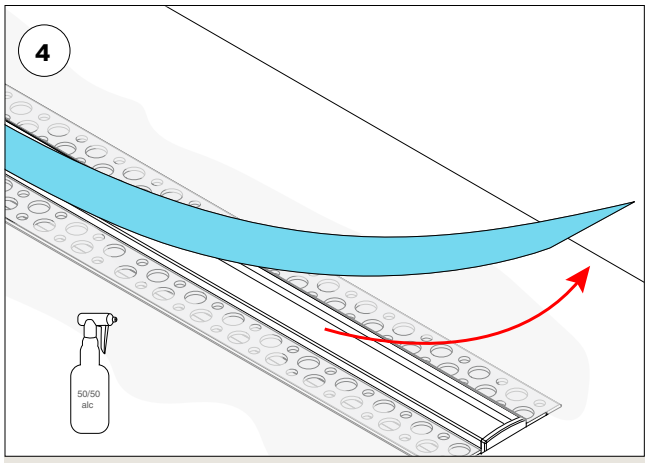
Remove the lens from the extrusion and mount the extrusion, with its endcaps attached, into 1/2" drywall. Make sure to plan for the wire exit.

NOTE: If not hitting a stud, use drywall anchor (not included)



a. Prepare for the mud in by covering the flanges with drywall tape. Cover the inside of the extrusion channel with masking tape.

b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.

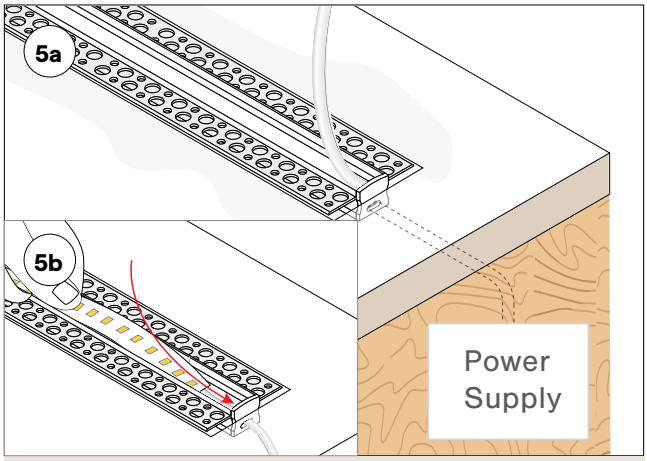


Remove the masking tape and throughly clean the inside of the extrusion using a 50/50 alcohol mix. Wait about 5 minutes for it to dry.

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

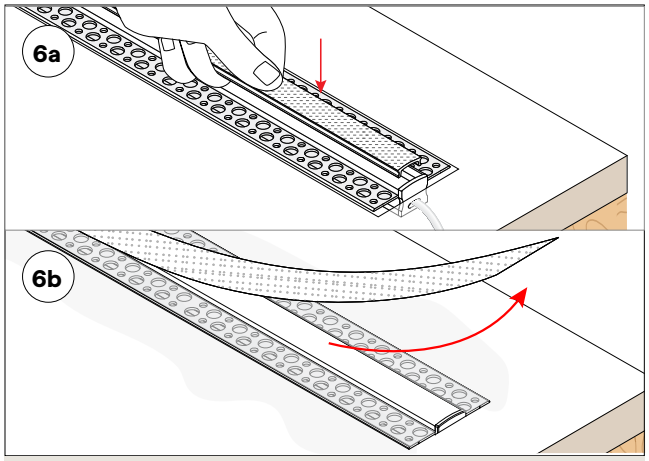
FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT DRYWALL MILLWORK CONTINUED**

- 2 screws per every 12"



a. Feed the wire to the power supply.

b. Install the LED strip (See LED strip install guide for more information)



a. Insert the lens into the install extrusion.

b. Remove the protective film after painting is finished.

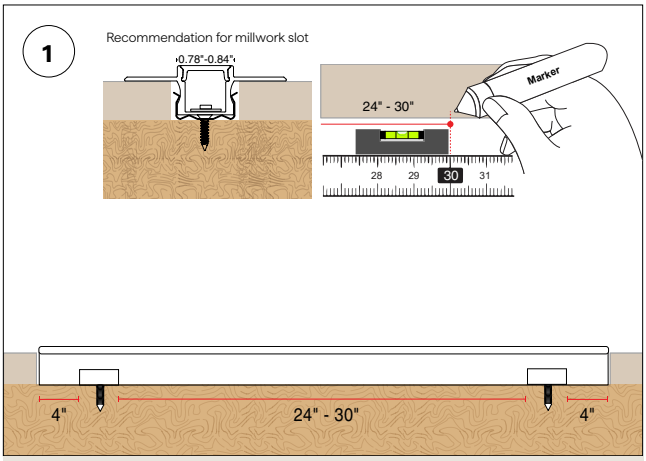
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

MDIN

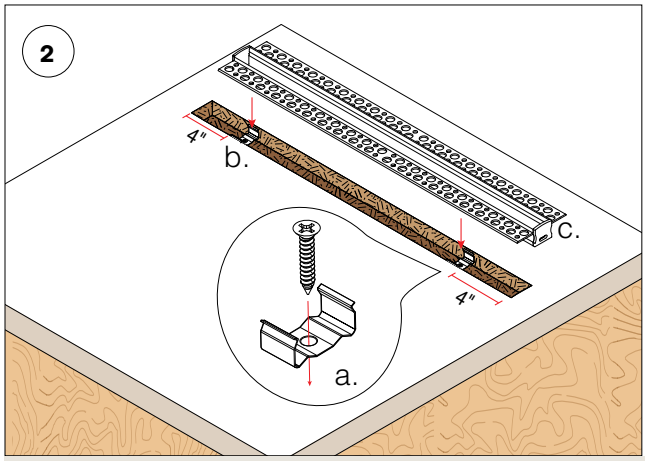
Field Assembled Extrusion Installation Instructions

FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT CLIP MILLWORK**

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



Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.

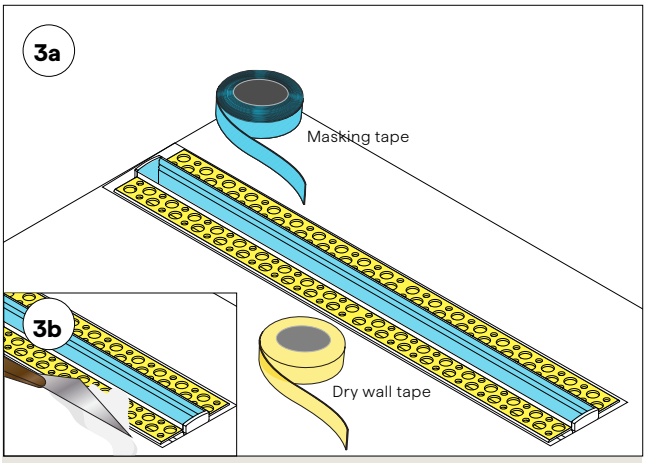


a. Install clips using the #4 flat head hardware provided onto stud/recessed surface.

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

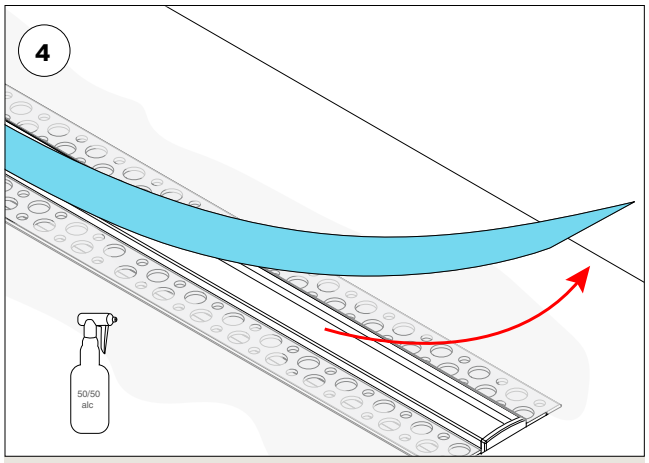
c. Remove lens from the extrusion. Push the extrusion with endcaps into the clips until secure.

NOTE: Make sure to plan for wire exit.



a. Prepare for the mud in by covering the flanges with drywall tape. Cover the inside of the extrusion channel with masking tape.

b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.

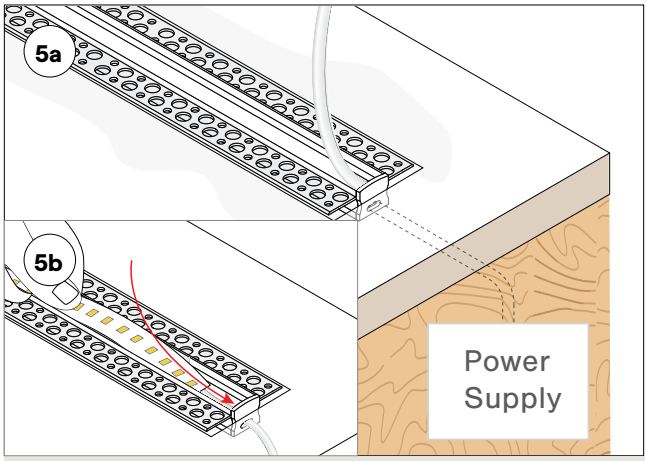


Remove the masking tape and throughly clean the inside of the extrusion using a 50/50 alcohol mix. Wait about 5 minutes for it to dry.

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

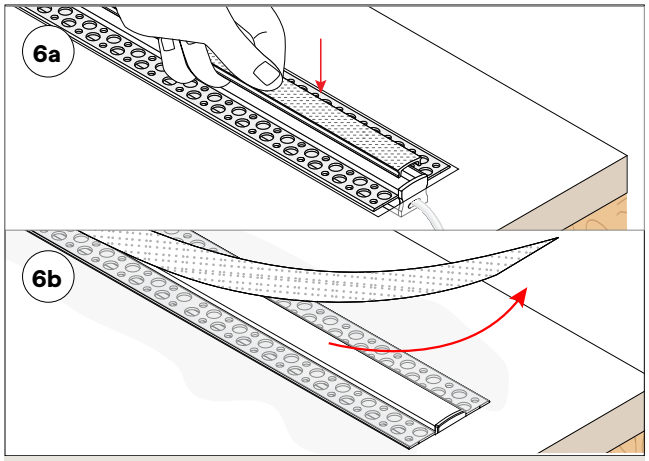
FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT CLIP MILLWORK CONTINUED**

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



a. Feed the wire to the power supply.

b. Install the LED strip (See LED strip install guide for more information)



a. Insert the lens into the install extrusion.

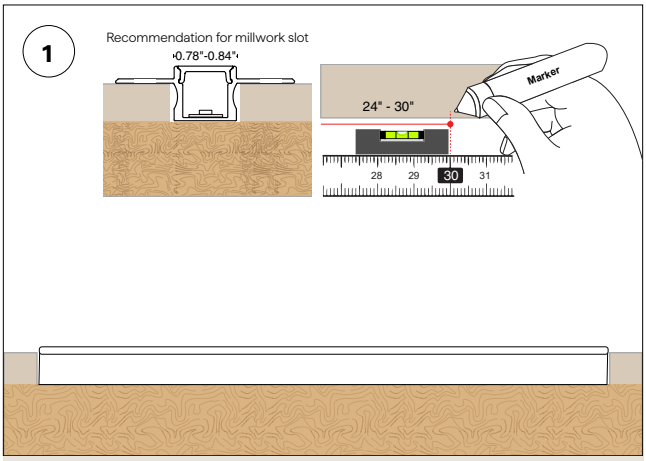
b. Remove the protective film after painting is finished.

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

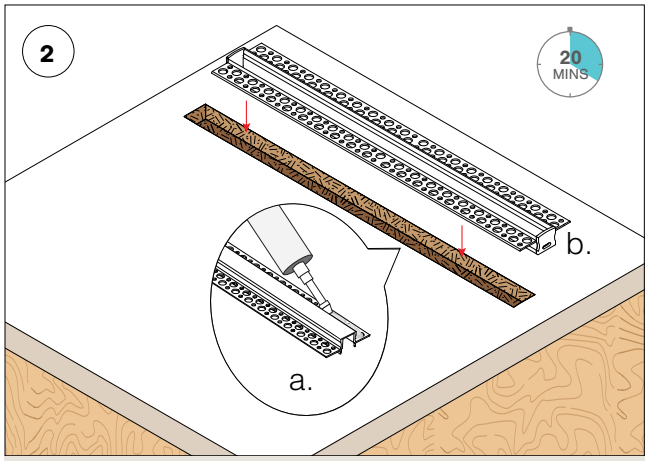
MDIN

Field Assembled Extrusion Installation Instructions

FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SILICONE MILLWORK**



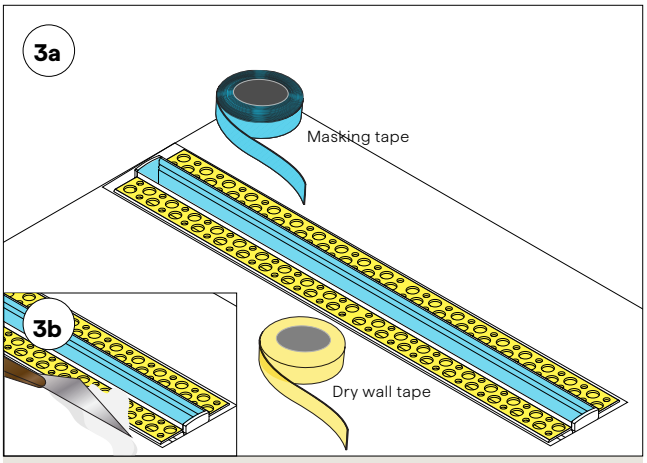
Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.



a. Apply silicone to the underside of the flanges and the side walls of the MDIN extrusion.

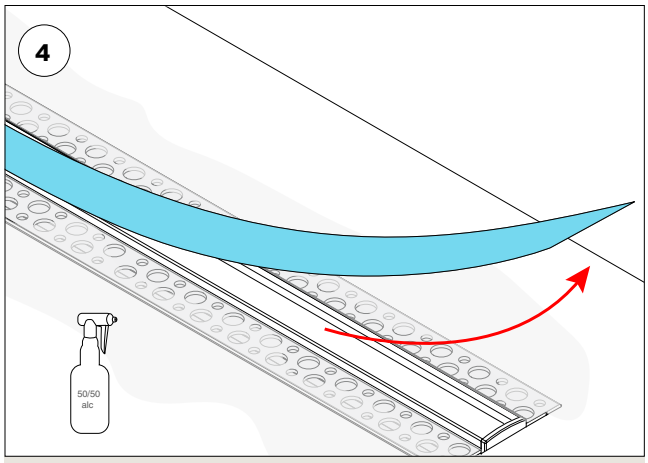
b. Mount the MDIN extrusion into the 0.78"–0.84" cut out using applying pressure.

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



a. Prepare for the mud in by covering the flanges with drywall tape. Cover the inside of the extrusion channel with masking tape.

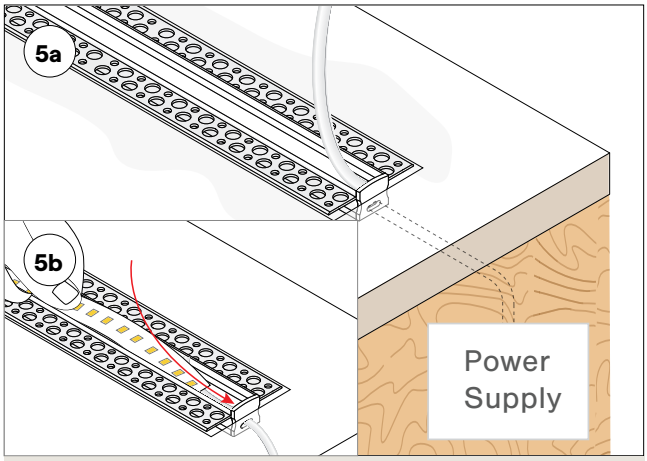
b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.



Remove the masking tape and throughly clean the inside of the extrusion using a 50/50 alcohol mix. Wait about 5 minutes for it to dry.

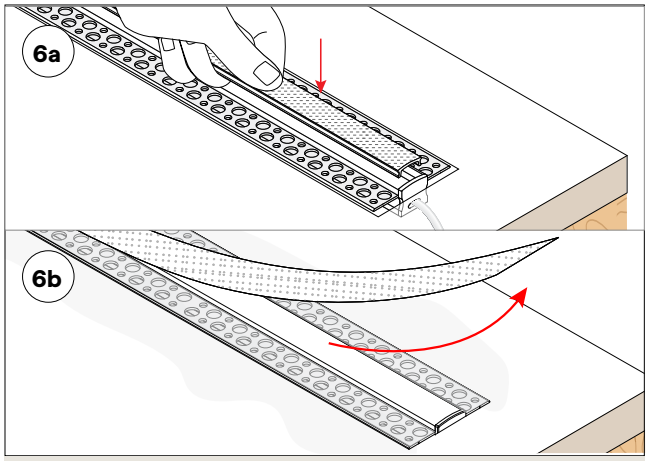
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

FIELD ASSEMBLED RECESSED MOUNTING METHOD: **SILICONE MILLWORK**



a. Feed the wire to the power supply.

b. Install the LED strip (See LED strip install guide for more information)



a. Insert the lens into the install extrusion.

b. Remove the protective film after painting is finished.

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

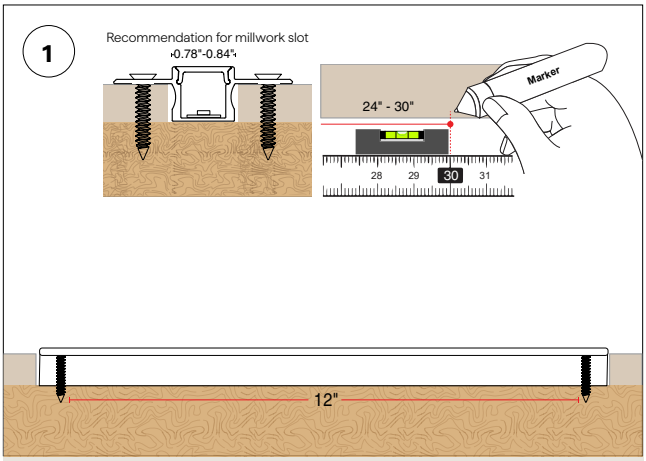
MDIN

Field Assembled Extrusion Installation Instructions

FACTORY ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT DRYWALL MILLWORK**

- 2 screws per every 12"

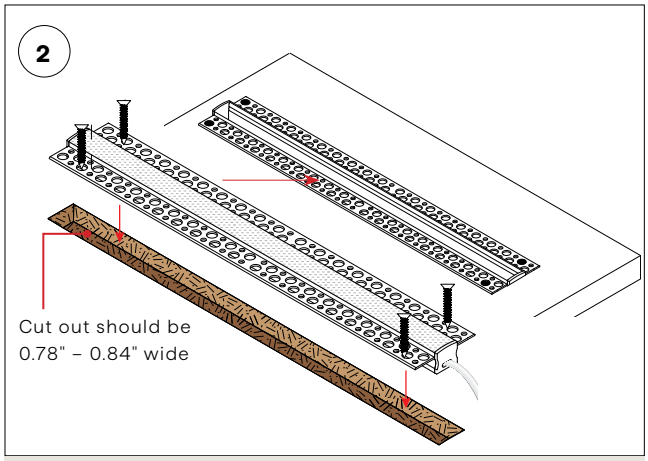
1



Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.

NOTE: Mount the extrusion into 1/2" or larger of drywall

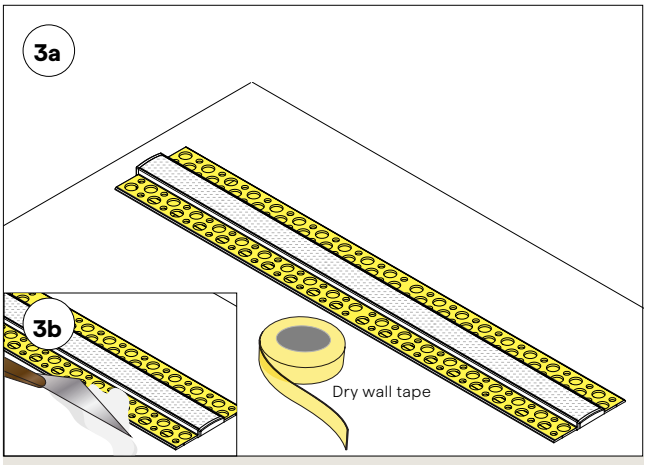
2



Mount the extrusion, with its endcaps attached, into 1/2" drywall. Make sure to plan for the wire exit.

NOTE: If not hitting a stud, use drywall anchor (not included)

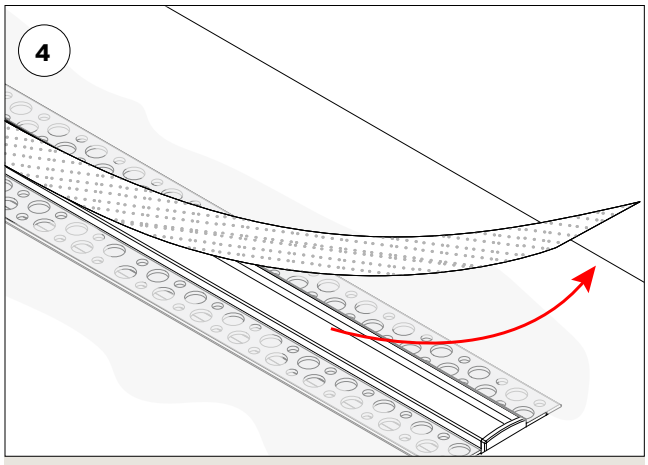
3a



a. Prepare for the mud in by covering the flanges with drywall tape. Keep the protective film on over the lens.

b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.

4



Remove the protective film after painting.

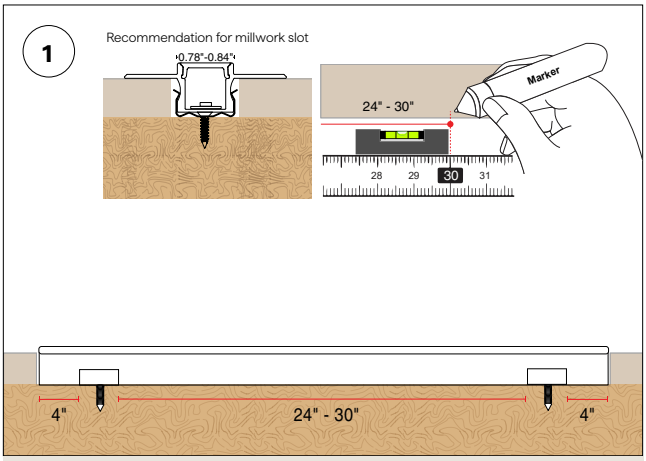
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

MDIN

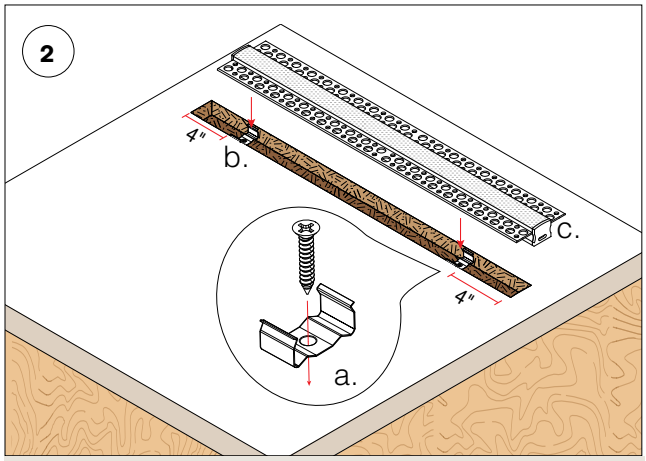
Field Assembled Extrusion Installation Instructions

FACTORY ASSEMBLED RECESSED MOUNTING METHOD: **SCREW MOUNT CLIP MILLWORK**

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



Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.

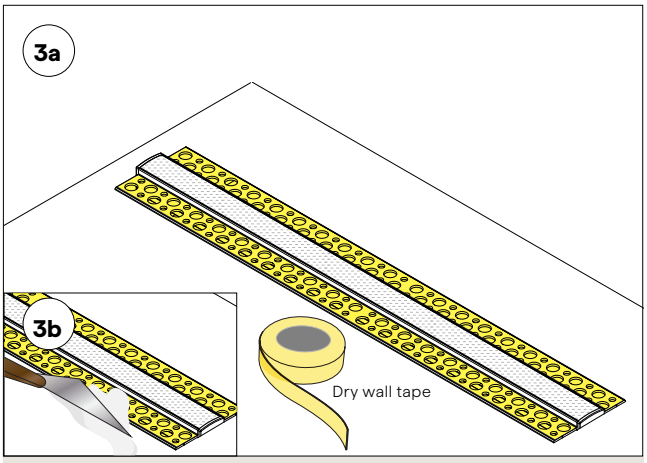


a. Install clips using the #4 flat head hardware provided onto stud/recessed surface.

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

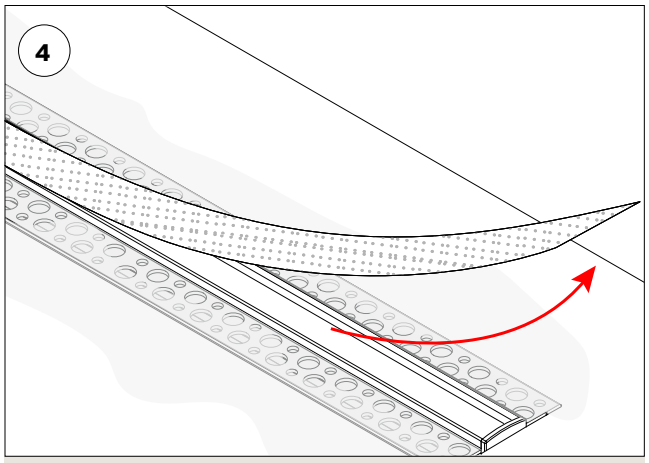
c. Remove lens from the extrusion. Push the extrusion with endcaps into the clips until secure.

NOTE: Make sure to plan for wire exit.



a. Prepare for the mud in by covering the flanges with drywall tape. Keep the protective film on over the lens.

b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.



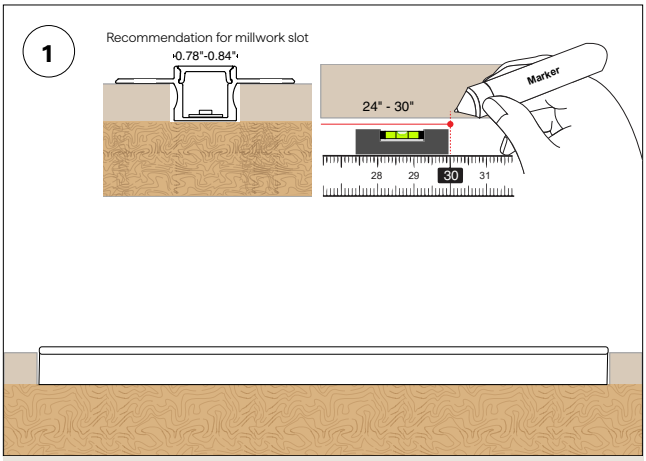
Remove the protective film after painting.

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

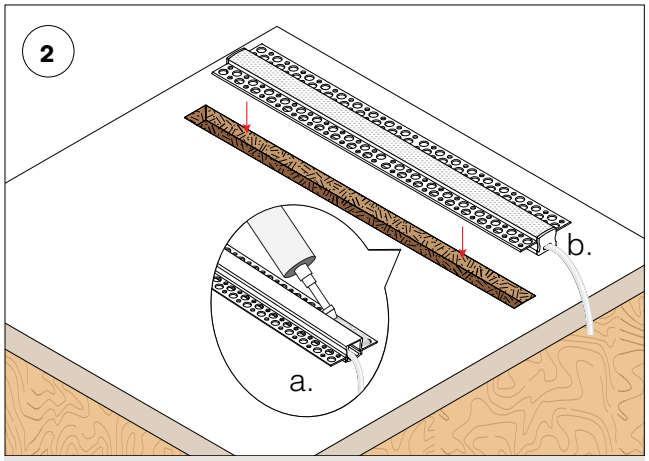
MDIN

Field Assembled Extrusion Installation Instructions

FACTORY ASSEMBLED RECESSED MOUNTING METHOD: **SILICONE MILLWORK**



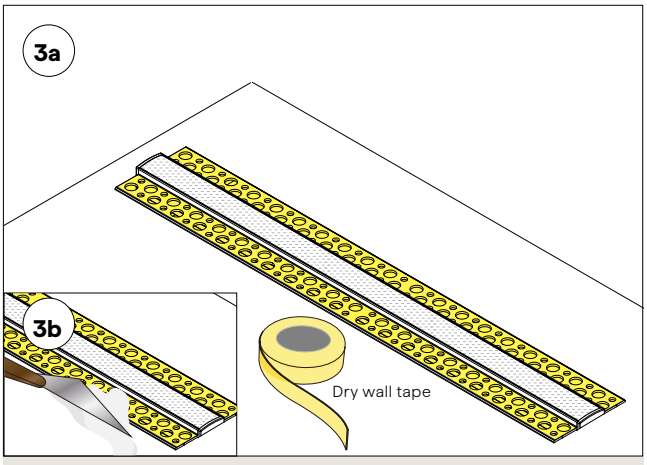
Determine the MDIN fixture(s) location and positioning on desired surface making any necessary reference markings to indicate fixture placement. Make sure to plan for the wire exit.



a. Apply silicone to the underside of the flanges and the side walls of the MDIN extrusion.

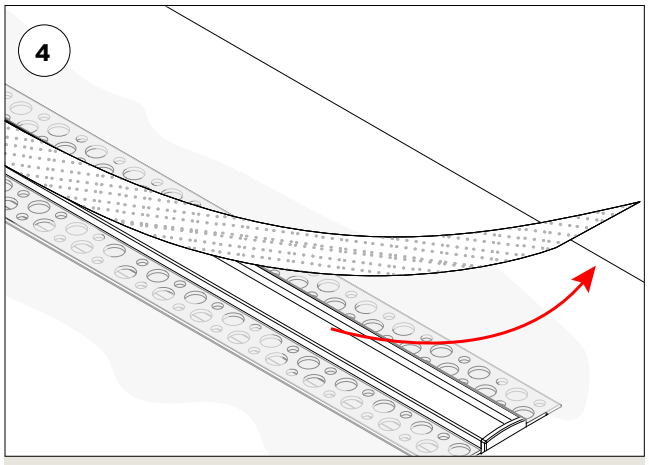
b. Mount the MDIN extrusion into the 0.78"–0.84" cut out using applying pressure.

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



a. Prepare for the mud in by covering the flanges with drywall tape. Keep the protective film on over the lens.

b. Use plaster to cover the fixture's flanges. Then, smooth it out until it has an even transition from plaster to wall surface.



Remove the protective film after painting.

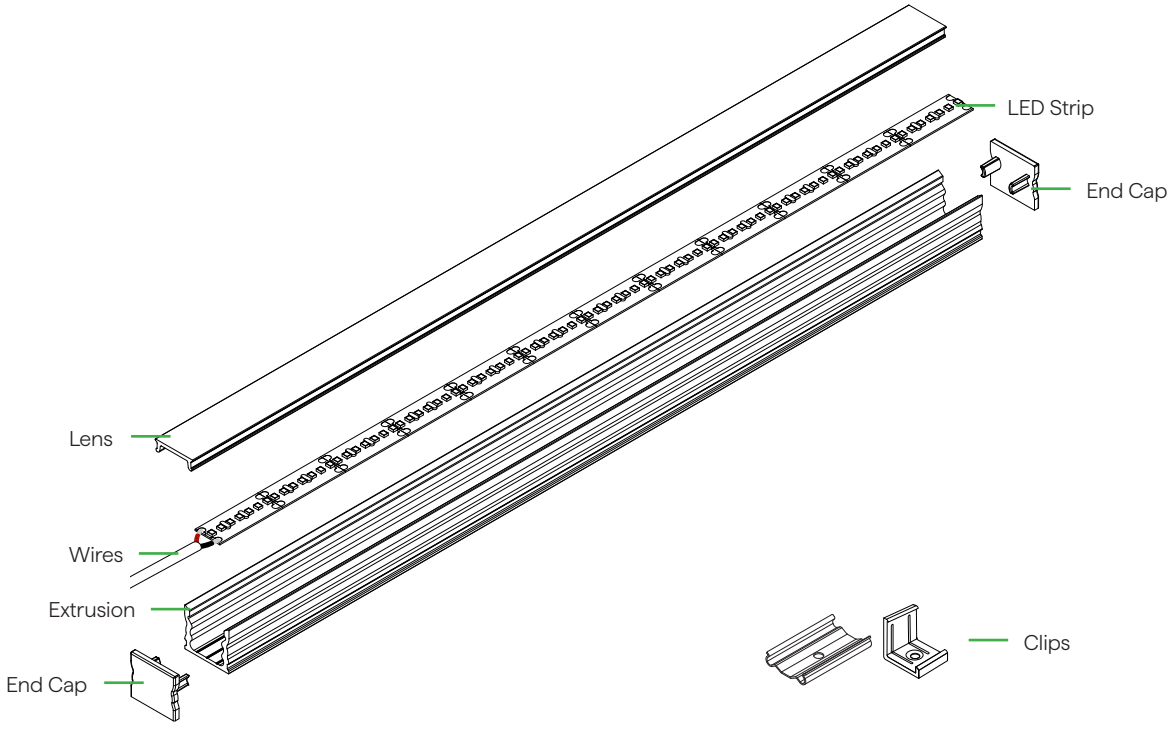
© 2026 QTL. All rights reserved | 155 Hill St. Milford, CT 06460 | 203-367-8777 | sales@QTL.lighting | QTL.lighting

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

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