

# Q-TRAN SW24-1.5 Linear LED Strips Instruction Manual

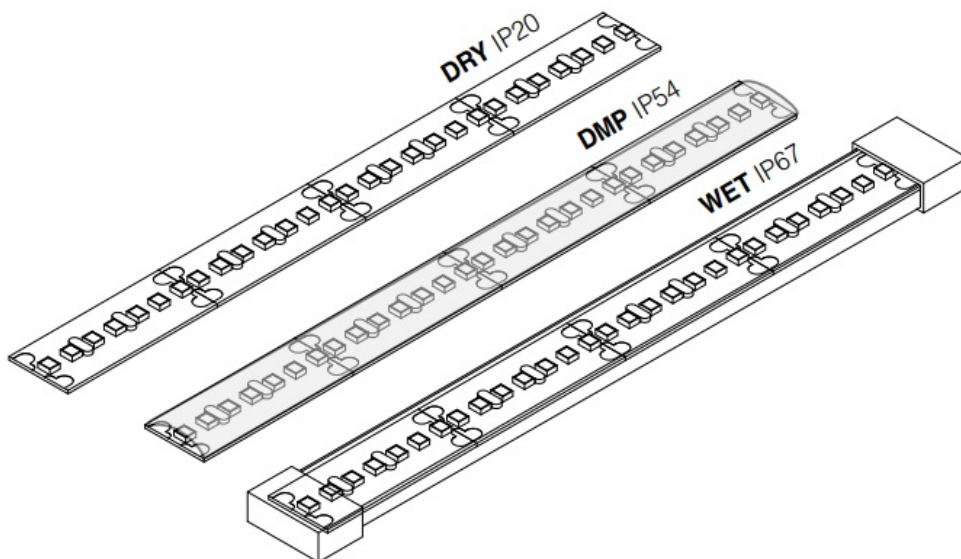
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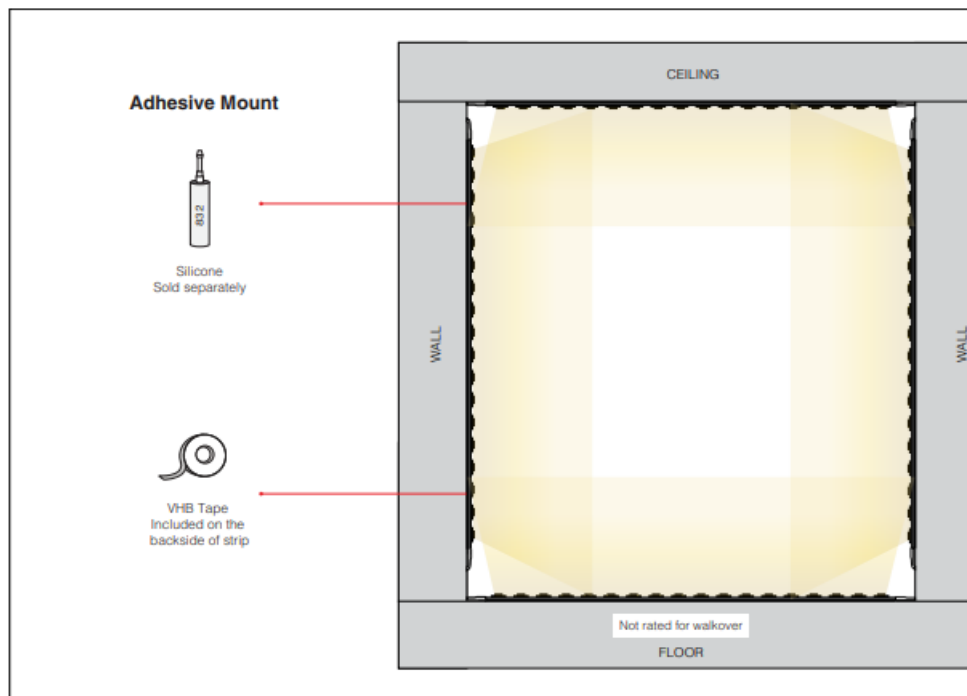
## Q-TRAN SW24-1.5 Linear LED Strips Instruction



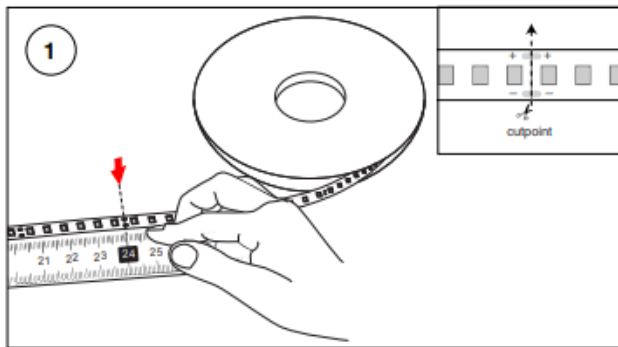
**ATTENTION:** Please read all instructions BEFORE installation

- 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 Q-Tran power supply instructions for wiring
- Use only with Class 2 power supply unit — Compatible for use with Q-Tran power supplies
- 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 Q-Tran facility
- Temp Rating: Refer to cut sheet
- Not rated for walkover
- Input Voltage: 24VDC
- Diagrams for representation only and not to scale.

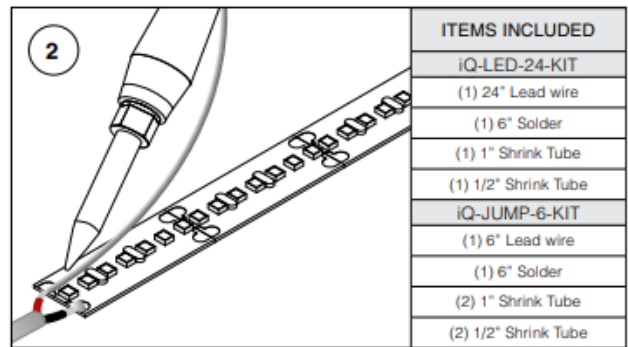
## METHODS OF INSTALLATION



**LED STRIP LEAD WIRE & JUMPER INSTRUCTIONS:** DRY IP20 If LED wires are pre-soldered from the factory.

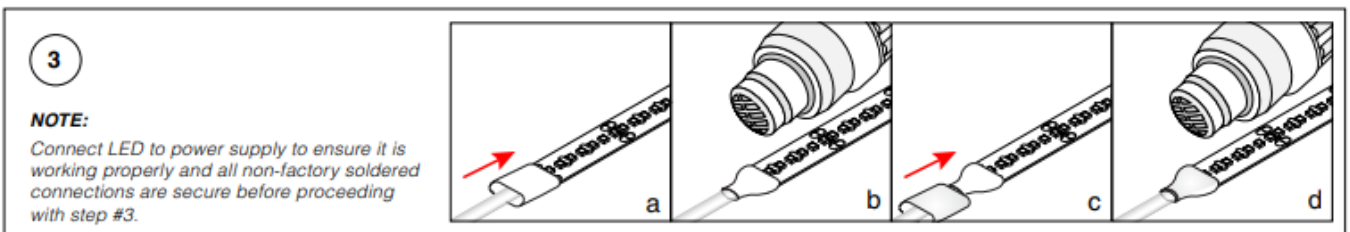
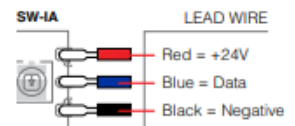
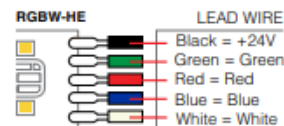
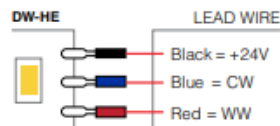
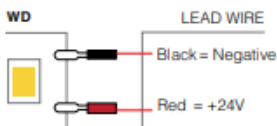
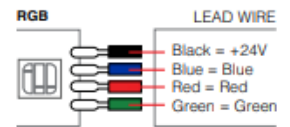
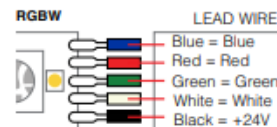
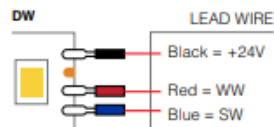
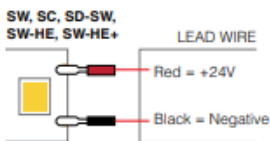


Measure and cut LED strip to desired length with scissors along the cut point.



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.



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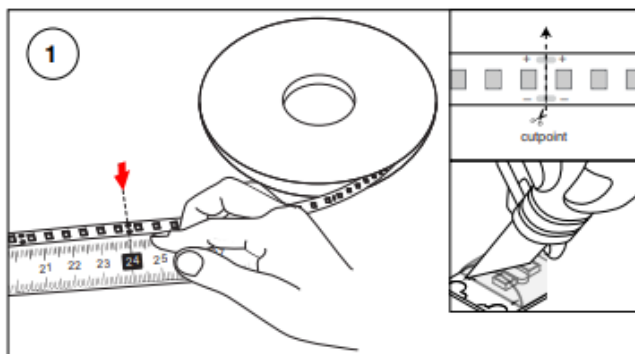
**NOTE:**

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:**

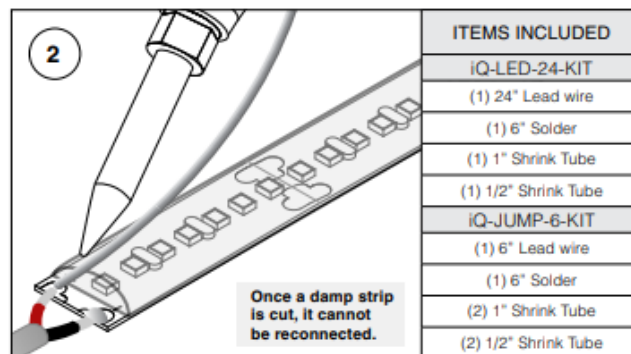
- a: Place 1st sleeve (1/2" Shrink Tube ) on lead wire.
- b: Shrink the tube with heat gun.
- c: Place 2nd sleeve (1" Shrink Tube ) on lead wire.
- d: Shrink the tube with heat gun.

DMP IP54 If LED wires are pre-soldered from the factory.



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

- Carefully peel polyurethane back to expose the solder pads.

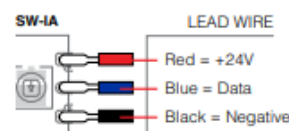
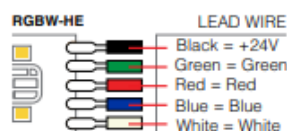
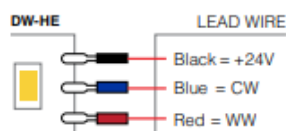
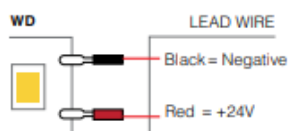
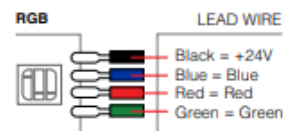
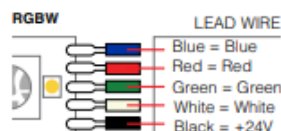
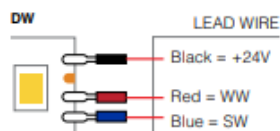
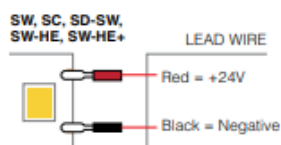


Solder lead wire onto solder pad. Confirm positive (+) and negative (-) are matched up correctly before soldering. BLACK wire is typically negative, RED wire is typically positive.

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

#### ITEMS INCLUDED

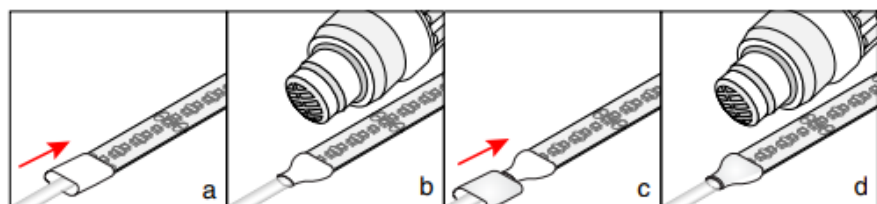
<b>iQ-LED-24-KIT</b>
(1) 24" Lead wire
(1) 6" Solder
(1) 1" Shrink Tube
(1) 1/2" Shrink Tube
<b>iQ-JUMP-6-KIT</b>
(1) 6" Lead wire
(1) 6" Solder
(2) 1" Shrink Tube
(2) 1/2" Shrink Tube



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#### NOTE:

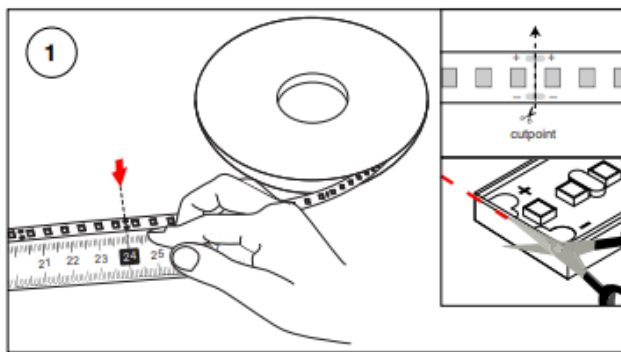
Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure before proceeding with step #3.



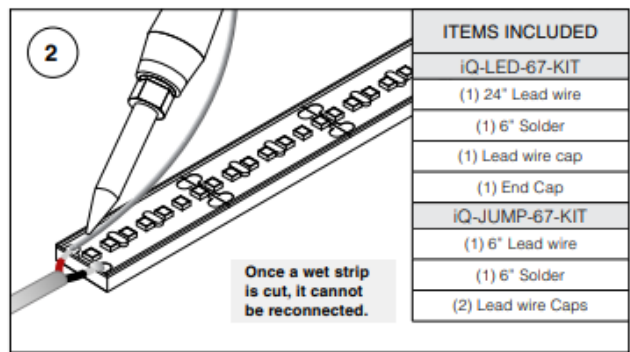
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- a: Place 1st sleeve (1/2" Shrink Tube ) on lead wire.
- b: Shrink the tube with heat gun.
- c: Place 2nd sleeve (1" Shrink Tube ) on lead wire.
- d: Shrink the tube with heat gun.

**WET IP67 If LED wires are pre-soldered from the factory**

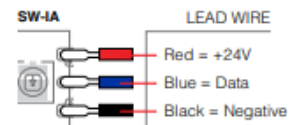
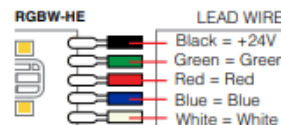
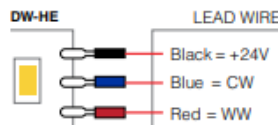
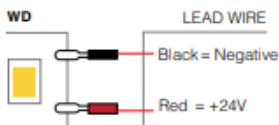
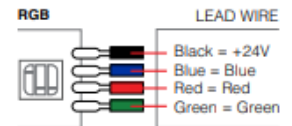
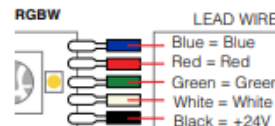
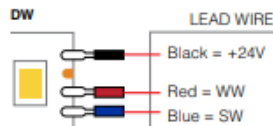
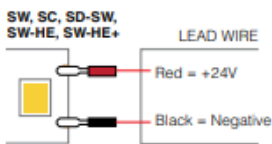


Measure and cut LED strip to desired length with scissors along the cut point.



Solder lead wire onto solder pad. Confirm positive (+) and negative (-) are matched up correctly before soldering. BLACK wire is typically negative, RED wire is typically positive.

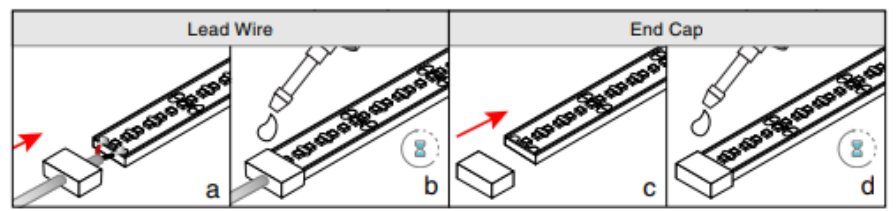
**NOTE:** Recommended soldering iron temperature of 650° – 700°F for lead-free solder.



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**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:**

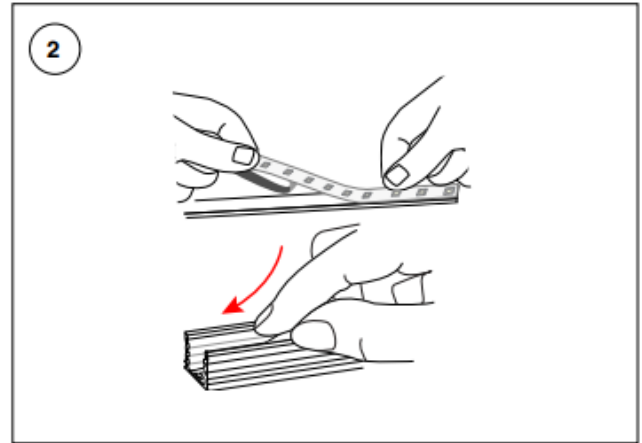
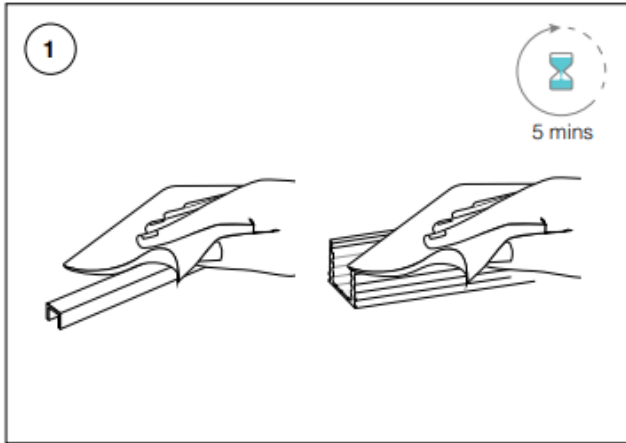
- a: Place lead wire cap over wire
- b: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.
- c: Place end cap over the end of LED
- d: Add silicone inside connector and glue around the edge to secure gap; allow time for glue to dry.

**NOTES:**

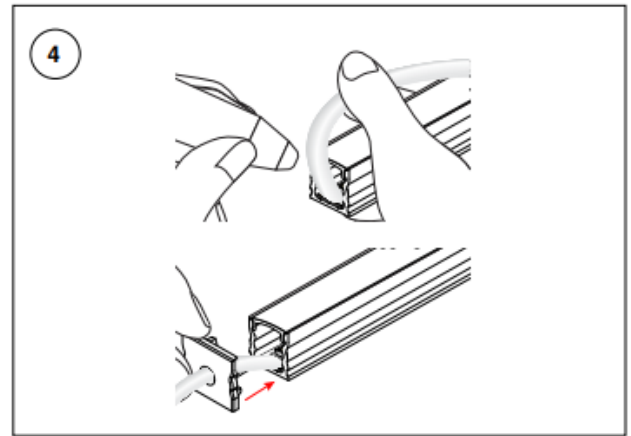
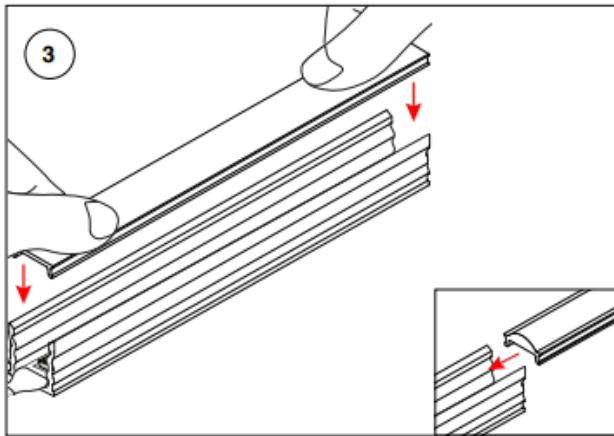
- Avoid bending in sharp angles which may damage the LED.
- Always test LED operation before installing in extrusion. Connect LED to power supply to ensure it is working properly and all non-factory soldered connections are secure.
- Diagrams for representation only and not to scale.



## LED INSERTION FOR IN-FIELD ASSEMBLY INSTALLATION STRIP IN EXTRUSION

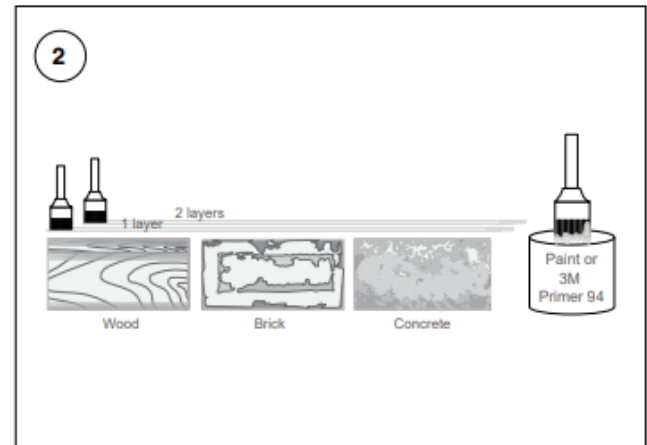
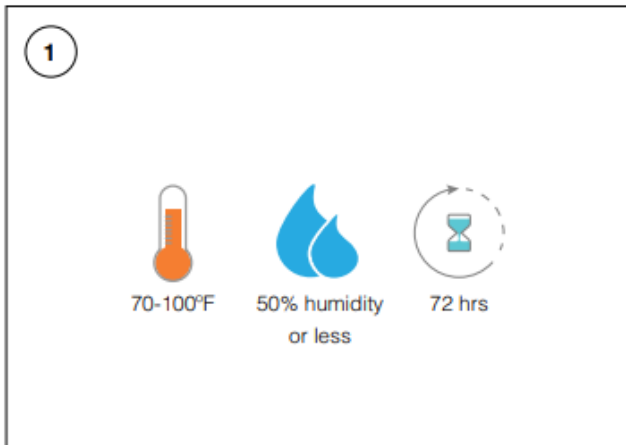


1. Using a 50/50 alcohol mix thoroughly clean, the extrusion surface and the multi-tray surface. Allow time to dry (about 5 minutes).
2. Gently place LED in extrusion/tray. Apply firm pressure to the bonding surface. This will reduce the chances of dust and debris from contaminate adhesive. The smallest amount of exposed adhesive is the best case.



3. Flat Lenses: Apply uniform pressure until the extrusion and lens snap securely together.  
Optical Lenses: Starting from one end of the extrusion, slide the lens into the grooved lip of the extrusion until secured in place.
4. 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.

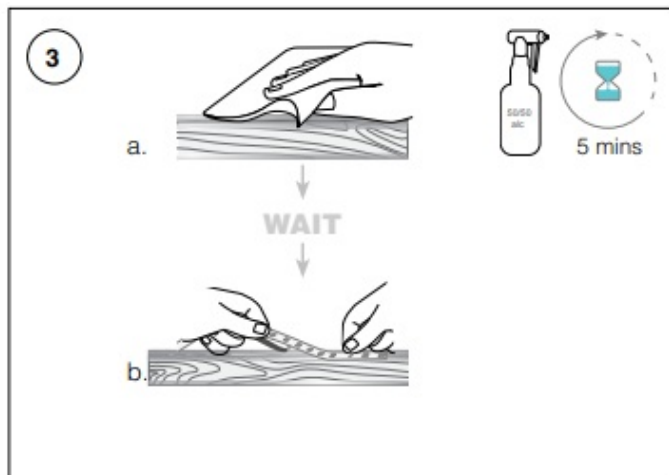
## SURFACE MOUNTING METHOD SURFACE PREPARATION



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. 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.

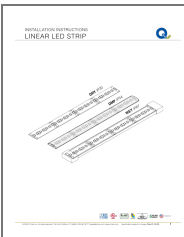


3. a. Using a 50/50 alcohol mix, thoroughly clean surface area where LED will be installed. Allow 5 minutes to dry.
- b. Peel back 0.5" of the VHB tape's protective film on one end of LED and use firm pressure to adhere it to the desired surface, avoiding air bubbles. Continue peeling the film and adhering the strip in small sections until the entire length is installed.



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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## Documents / Resources

	<b><a href="#">Q-TRAN SW24-1.5 Linear LED Strips</a></b> [pdf] Instruction Manual SW24-1.5 Linear LED Strips, Linear LED Strips, SW24-1.5 LED Strips, LED Strips, SW24-1.5, Strips
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## References

-  [RealNames | A more meaningful email address](#)
-  [LED Lighting Systems, Linear LED Lights, LED transformers | Q-Tran](#)

Manuals+.