

SLABlite, Inc.

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Quick-Start Reference

April 1, 2026

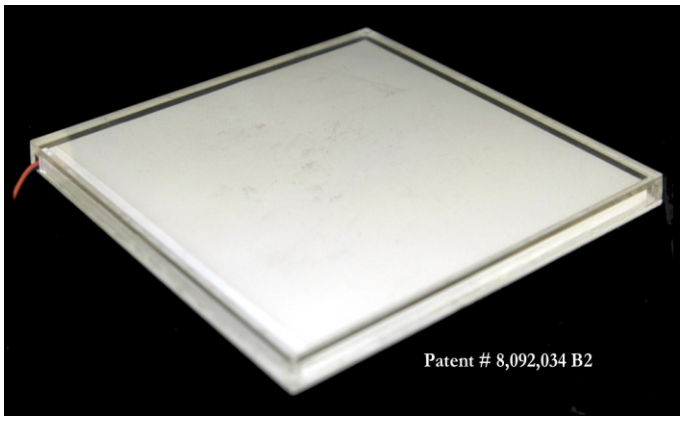
What's under your stone?

Thank you for purchasing SLABlite Panels

SLABlite Panels are the ultimate solution for backlighting natural stones such as onyx, as well as solid-surface translucent materials used for countertops, walls, and other backlighting applications.

Energy-efficient, waterproof, and durable, SLABlite Panels provide consistent, even illumination across a wide variety of surfacesand have an expected lifespan of up to 20 years.

SLABlite Panels can also be custom cut on the jobsite to accommodate the specific requirements of your installation.

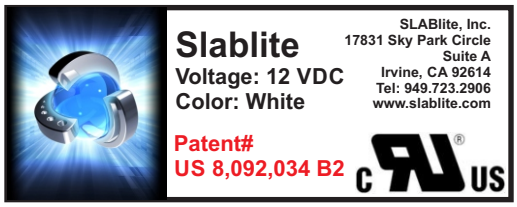


Important:

Whenever a SLABlite Panel is cut, the exposed edge must be resealed with clear silicone. This is required even in dry locations, as moisture is always present in the air. Properly resealing the cut edge helps protect the SLABlite and ensures long-term performance.

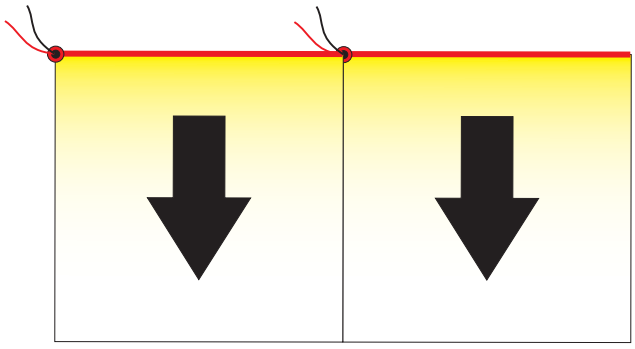
SLABlite Tile Specifications:

- Dimensions: 12.0" x 12.0" X 0.375”
- DC Forward Current: 12VDC
- Watts per Panel: 1.92 watts per panel
- Luminous Flux: Natural White 4,700K
- Draw .16 amps per panel @ 12VDC
- Rated Panel Life: 20 Years
- IP Rating: 67 (waterproof)



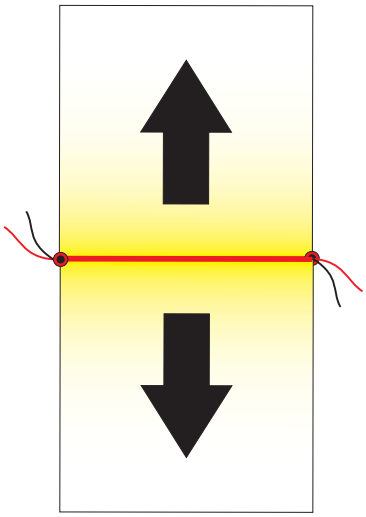
Working with the SLABlite Panel

The arrow refers to the location of the LED light strip to the panels orientation. The flow of light from the LED light strip determines the correct orientation of the panel.



Panels should be installed right next to each other with no gaps to avoided shadows.

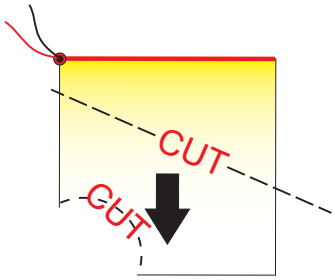
Do not install two SLABlites with light strips touching as this will result in a dark shadow where the SLABlites meet.



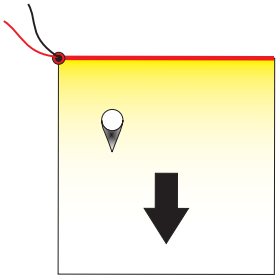
Cutting SLABlite Panels

SLABlite panels can be cut to work around shapes like sinks and curved countertops. Panels should be cut on one of the 3 - sides away from the “Light-Strip” whenever possible. Contact SLABlite Inc if your layout requires the Light-Strip to be cut.

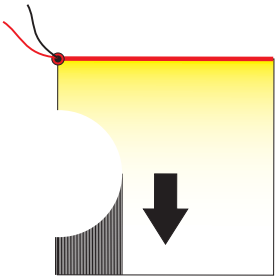
Figures below illustrates safe cuts or acceptable cuts to the panel in the left and center diagrams and an unacceptable cut on the far right. It is recommended that you layout your panels so it is not necessary to cut the Light-Strip edge if possible.



Safe Cuts to the SLABlite



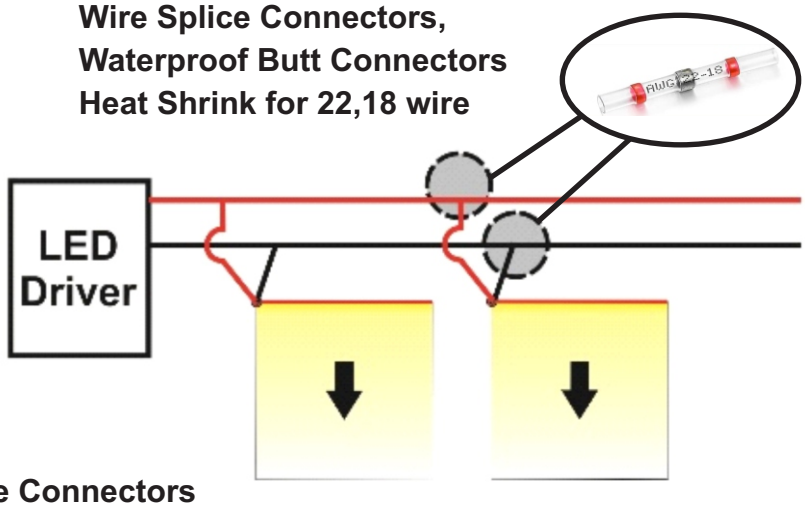
Small access holes for fixtures, will leave a comet effect after to hole. This will not show after the stone is installed.



Cutting into the SLABlite like this will block the light and create a shadow.



Red Solder Seal Wire Connectors,
Wire Splice Connectors,
Waterproof Butt Connectors
Heat Shrink for 22,18 wire



22-18 Awg Red Solder Seal Wire Connectors

https://www.amazon.com/dp/B0FSBZJ1X9/ref=sspa_dk_detail_1?pd_rd_i=B0FSBZJ1X9&pd_rd_w=3zuAG&content-id=amzn1.sym.4adc092d-0184-45e6-8bd0-773f48fbf8ff&pf_rd_p=4adc092d-0184-45e6-8bd0-773f48fbf8ff&pf_rd_r=MAYCWCZPB3KG3TP4QTJN&pd_rd_wg=5UgzJ&pd_rd_r=91c6ff7f-338b-4ce3-81d2-883199fe54fa&sp_csd=d2lkZ2V0TmFtZT1zcF9kZXRhaWxfdGhlbWF0aWM&th=1

DO NOT USE WIRENUTS

Wiring the SLABlites

Connect the first SLABlite directly to the transformer.



From there, wire the remaining SLABlites in parallel, connecting red to red and black to black. For best results, bury the 18- or 16 gauge wire in the substrate.

This keeps the wiring protected and prevents the wires from being pulled away from the SLABlites during installation or after the stone is installed.

We strongly recommend hiding and securing the wiring within the substrate. If you choose to drill through the substrate and make the wire connections underneath, this could create a problem later. If a wire is accidentally pulled and separates from a SLABlite, you may not be able to repair or reconnect it because the stone slab cannot be removed once it has been installed.

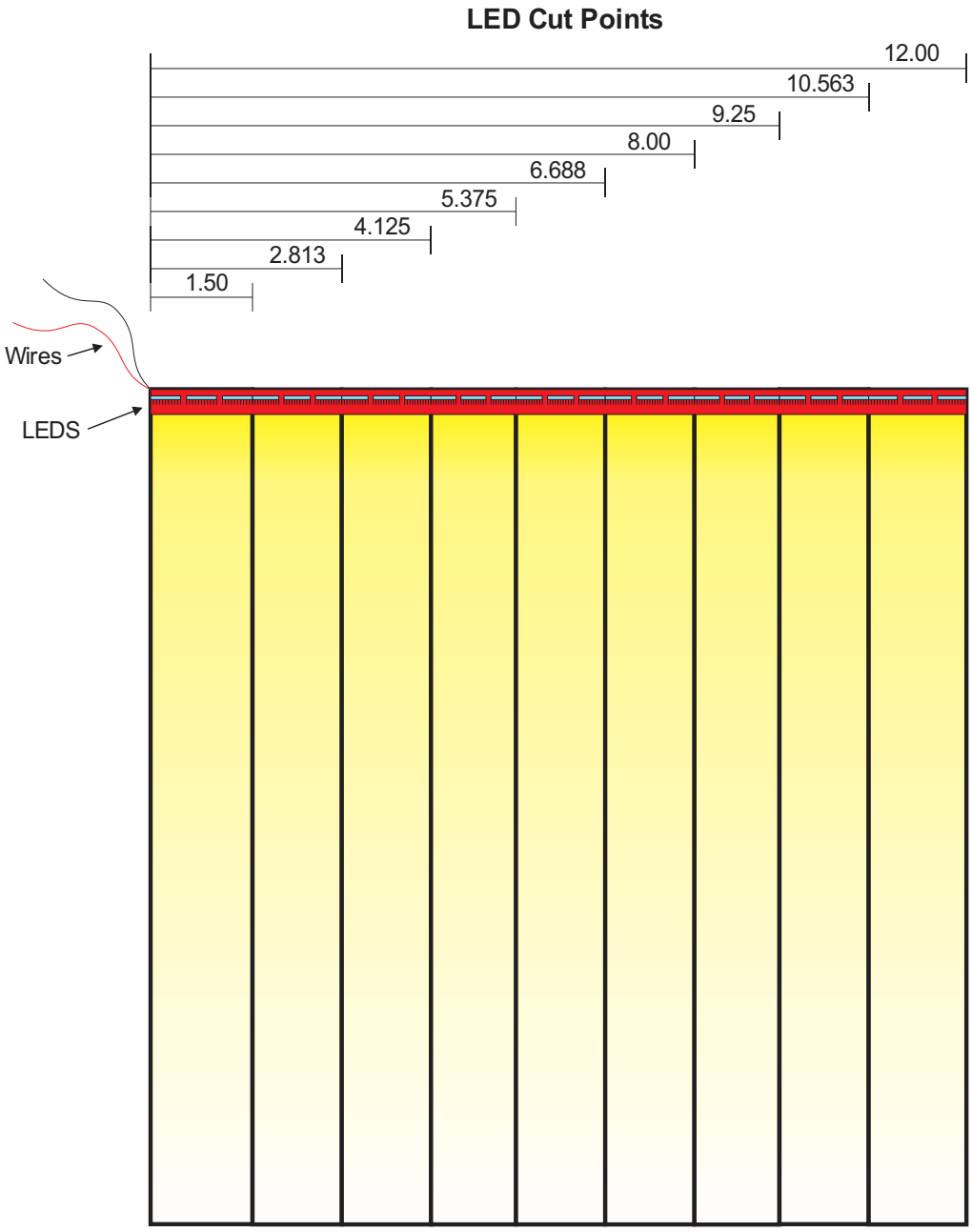
When routing the pathway for each SLABlite, be sure to create enough space for the nodule on the back of the SLABlite. It is critical that no pressure is placed on this nodule when the stone slab is installed.

It is important to keep the SLABlite panels illuminated while the stone slab is being installed. This allows you to immediately identify if a connection is disrupted or a SLABlite panel is damaged as the slab is being set into place. Once the slab is installed, verify that all SLABlite panels are still illuminated and operating properly.

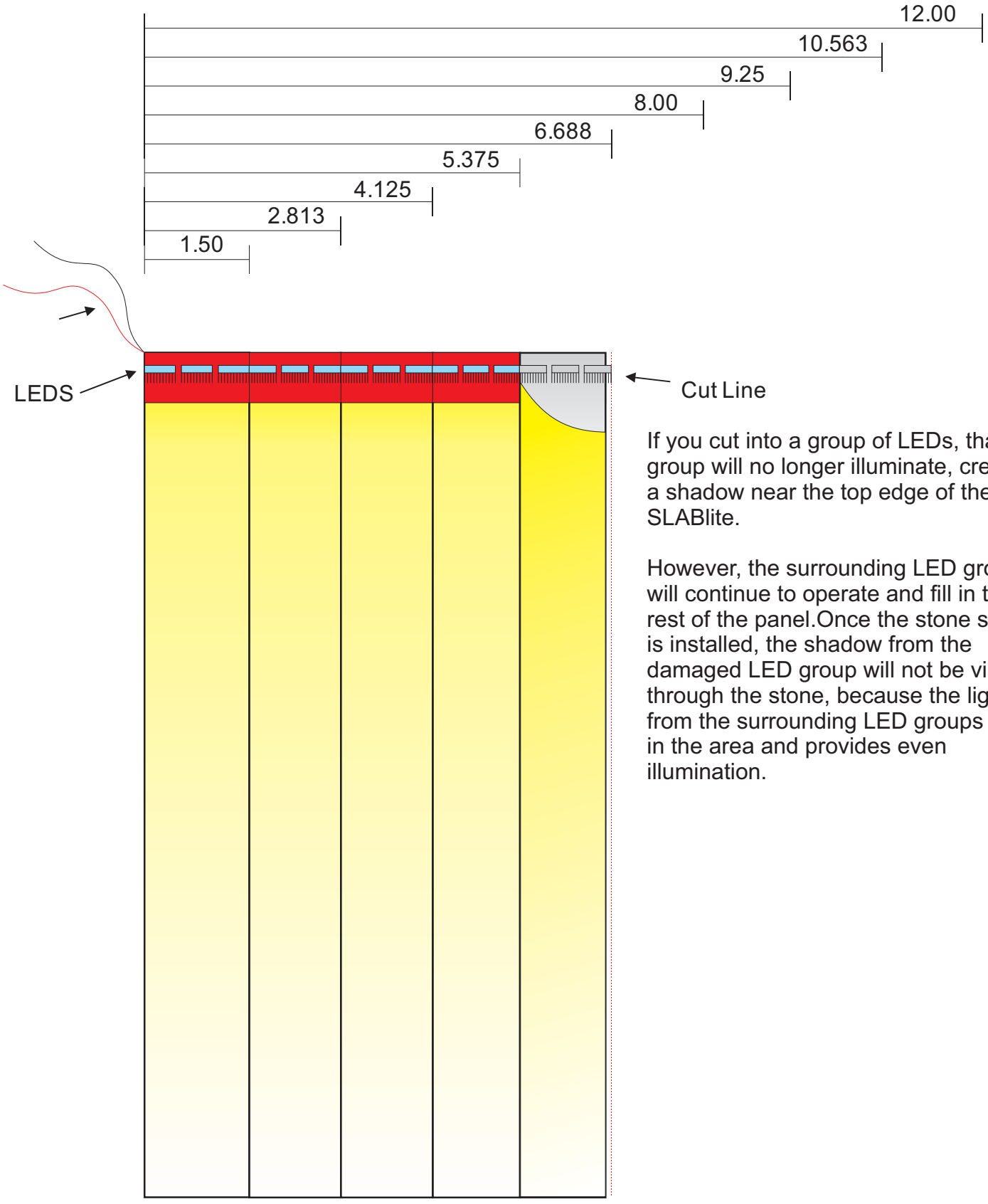
SLABlite panels are designed to be customized

SLABlite panels are designed to be customized directly on the jobsite, allowing them to be cut and shaped to fit the specific requirements of each installation.

The LEDs are engineered in groups of three. Each group of three LEDs is wired in series, and the individual groups are then wired in parallel. This design provides built-in redundancy. If one group of LEDs should fail, the surrounding LED groups continue to operate and help fill in the area, keeping the SLABlite evenly illuminated.The diagram below shows the LED layout and approved cut lines for properly customizing the SLABlite panel.

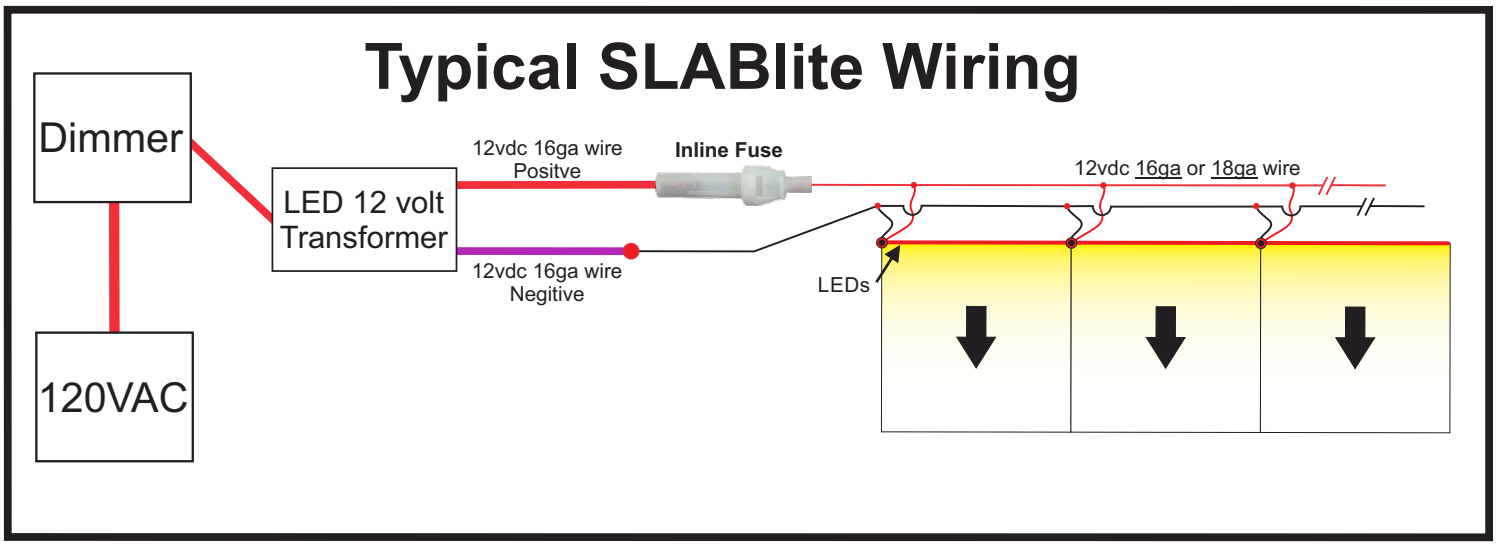


LED Cut Points



If you cut into a group of LEDs, that group will no longer illuminate, creating a shadow near the top edge of the SLABlite.

However, the surrounding LED groups will continue to operate and fill in the rest of the panel.Once the stone slab is installed, the shadow from the damaged LED group will not be visible through the stone, because the light from the surrounding LED groups fills in the area and provides even illumination.



Transformers 12volt:

60 watt: 24 SLABlites
5 amp fuse

150 watt: 60 SLABlites
20 amp fuse

200 watt: 80 SLABlites
25 amp fuse

300 watt: 120 SLABlites
25 amp fuse

12 AWG Inline Fuse Holder - Fuses

https://www.amazon.com/Pack-AWG-Inline-Fuse-Holder/dp/B0B3J33H38/ref=sr_1_2_sspa?crid=36IO41IF548J5&dib=eyJ2IjoiMSJ9.CUPbZcDmOiZmBmFt48mbIMMebyusIH7ultvNIFJSVDxVXNtK5I6vtLE2vce1kIXG9JteI_863Fn3vamrt33SMUWc3SBKBQXeB1RExyoUoMp9jGEWPakdWAKWv42Vw4oB8vGM-asXf_uU0iaPVO-4xtFHapsVyckTozi VyqHH2p0Udb501OuZBOgC7pg-5a-fz2A1_ZndLq3JTYJZJZGqt5hhAkIEZjI3LtmbGHhj2ATG9CqfeoAPUfiDnmvQgxtA BhsOe5LyIYPGKO3HsCsRMvn9KNEWLtZ8mOuzmKCiwcU.j9U0LpiSvT2bzHvWQHZ7eqngnax0OpmttZkr-e5kYvA&dib_tag=se&keywords=25%2Bamp%2Bin-Line%2BFuse&qid=1775148665&s=industrial&sprefix=25%2Bamp%2Bin-line%2Bfuse%2B%2Cindustrial%2C167&sr=1-2-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1

18 Gauge Silicone Wire Spool 100 Feet

https://www.amazon.com/Silicone-Electrical-Conductor-Parallel-Flexible/dp/B07FMRDP87/ref=sr_1_11?crid=3VWXCC818VGEE&dib=eyJ2IjoiMSJ9.sFJIrgiiNzZHprUyQTZeQK8OiTnUoiYkoYEP2qrpXLKNjnvFDwauFMNBMXnHntkFvVCCEsRXJ4y2xVi_LPRh5LmoKNupHYjD2CaivwEGa8D8QWYg1GorESh4JZOOhZK0g2kugOxiyX01o6FUMHeUfgF3ECOAI3cJQsCaD-XmNMhfOewgdsAjrmlIyCue1yTXATtungoMoQzELrxhm3YB5MKJOsabMMeIDKrfthJ4ILiEU7HsYS5E7ZzL4PR8X37-iB_avEiDlOYINt2QJYW_tzRVI8r3cNsGBWx6N9vDUo4.Io6pa0TITcDRdERfRNvI2H-VsWpYQpxwGo2eY_AIReo&dib_tag=se&keywords=18%2BGauge%2BSilicone%2BWire%2BSpool%2B100%2BFeet&qid=1786403168&s=industrial&sprefix=18%2Bgauge%2Bsilicone%2Bwire%2Bspool%2B100%2Bfeet%2Cindustrial%2C220&sr=1-11&th=1

Backlighting Cristallo Quartzite, Glass, Solid-surfacing materials is difficult.

Cristallo Quartzite

Cristallo Quartzite can contain areas within the slab that are nearly as clear as glass. These highly transparent areas provide very little natural diffusion, making LED hot spots and shadowing more visible. To compensate for this lack of diffusion and achieve more uniform illumination, a 3/4" space must be maintained between the SLABlite and the Cristallo Quartzite. The following diagram illustrates the recommended installation method and spacing.

Glass

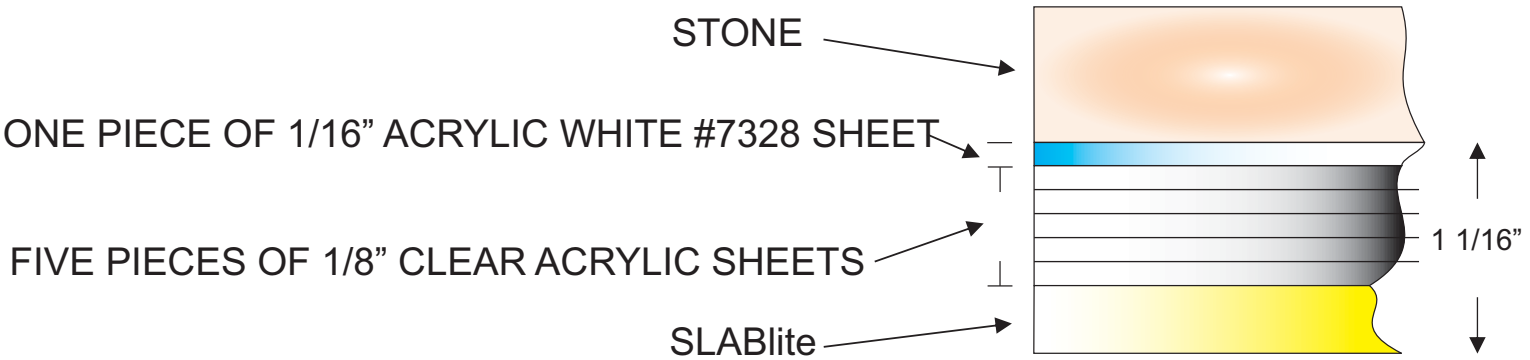
Glass is one of the most challenging materials to backlight because it provides virtually no natural diffusion. Without sufficient spacing, LED hot spots and shadowing can be clearly visible through the glass.To achieve more even illumination, a 3/4" space must be maintained between the SLABlite and the glass.The following diagram illustrates the recommended installation method and spacing.

Solid-Surface Materials

Solid-surface materials, such as Corian®, Wilsonart® Gibraltar®, and Avonite®, provide limited diffusion when backlit, which can result in visible hot spots and shadowing.To compensate and produce more uniform illumination, a 5/8" space must be maintained between the SLABlite and the solid-surface material.The following diagram illustrates the recommended installation method and spacing.

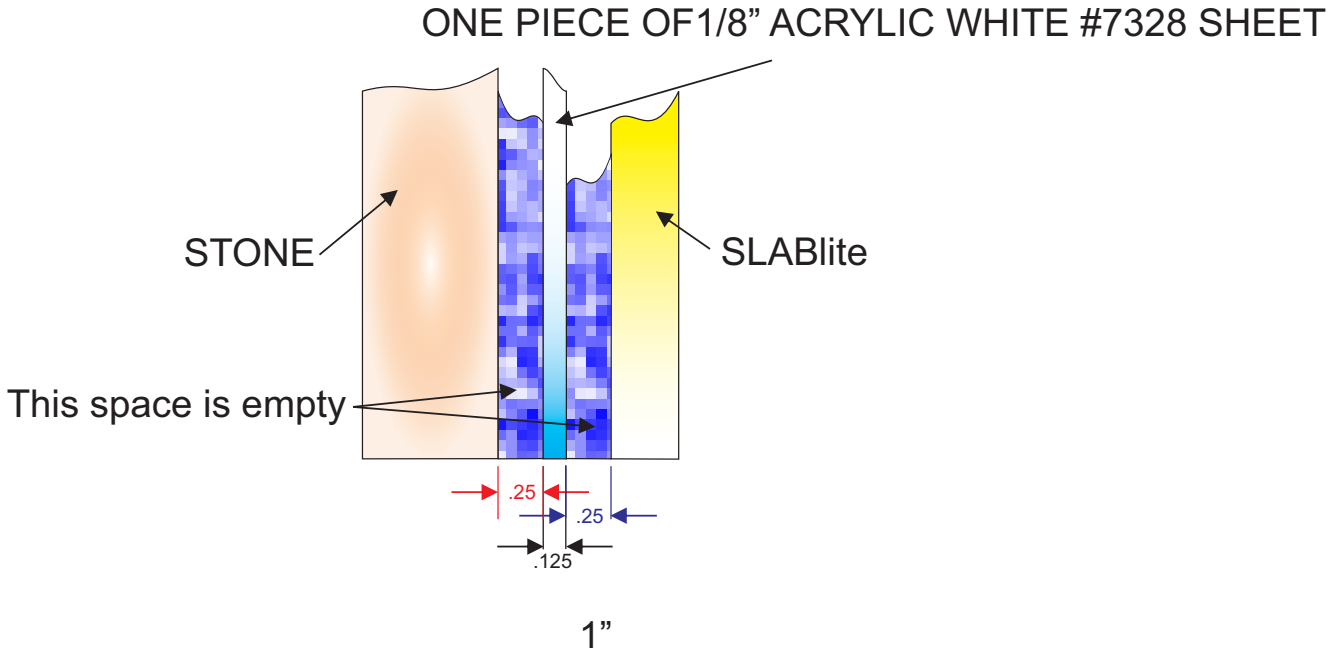
Countertop

Setup for Glass or Cristallo Quartzite
Solid-surfacing materials--such as Corian, Wilsonart's Gibraltar and Avonite



Wall

Setup for Glass or Cristallo Quartzite
Solid-surfacing materials--such as Corian, Wilsonart's Gibraltar and Avonite



A simple test to see if you have any transparent areas.

Cristallo Quartzite can contain areas within the slab that are nearly as clear as glass. These highly transparent areas provide very little natural diffusion, making LED hot spots and shadowing more visible.

A simple test to see if you have any transparent areas.

Ask that your slab be held up to the sun. You can do this outside or if you are inside, a rollup door will work. Only use sunlight. Sunlight will give you a 90% example of what your slab will look like.

If you think there is transparent area, hold a pencil behind the area. If you can tell that it is a pencil then we have to compensate for this lack of diffusion and achieve more uniform illumination, a 3/4" space must be maintained between the SLABlite and the Cristallo Quartzite.

If you see a shadow, then we will not have to compensate for this lack of diffusion.

You can see the SLABlite outline.



SLABlite with
.0625” Acrylic White #7328

Here the SLABlite outline disappears.



SLABlite with
.0625” Acrylic White #7328
.5” clear plastic

This is an example of a highly transparent area.

Wall Installation



These photos illustrate a typical wall installation using SLABlite. For proper installation, we recommend applying 1/8" thick plywood strips, cut to 11" wide, to the wall surface. The plywood strips should be installed with a 1" space between each strip. The 1" spacing creates a continuous wire chase way, allowing the electrical wiring to be routed neatly behind the SLABlite panels while maintaining a clean and organized installation.

IMPORTANT — SLAB SUPPORT

DO NOT GLUE THE SLAB DIRECTLY TO THE SLABlite.



SLABlite is constructed from three layers of plastic and is not designed to support the weight of the stone slab. The SLABlite should be considered the illumination system, not a structural support for the stone. If the slab shifts or pulls away from the wall, attaching it directly to the SLABlite could cause the SLABlite assembly to separate under the weight and movement of the stone. The slab must be mechanically secured independently of the SLABlite. It should be properly pinned or restrained along the sides and/or at the top to prevent forward movement and safely support the installation. The following photos illustrate the recommended wall preparation, plywood spacing, wire chase way, and installation configuration.





SLABlite can light up the edge of the slab.

Lighting and Hiding the Edge of the Stone Slab

A common question is: How do you hide the infrastructure—the SLABlites and substrate—at the edge of the stone slab?

Most installations will have a drop-down stone edge that conceals the SLABlites and substrate. The SLABlite is designed so that light travels through the unit and into the surrounding SLABlites, helping create even illumination throughout the installation. If you position the LED edge of the SLABlite parallel to the edge of the stone slab, the light will project into the drop-down stone edge. This works especially well when the drop-down edge is approximately twice the thickness of the stone slab.

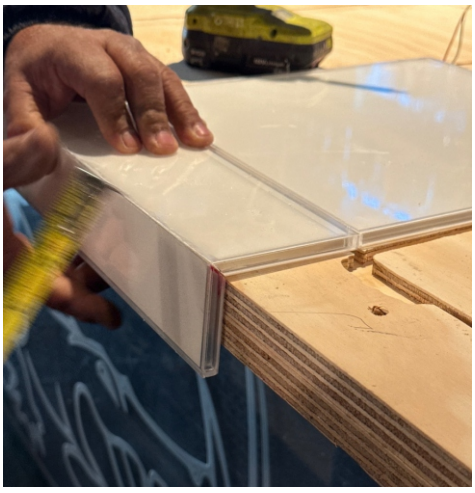


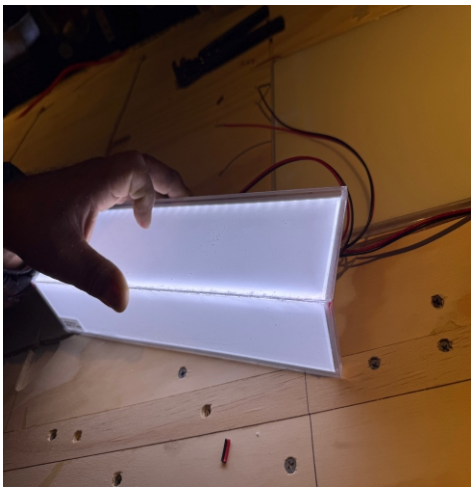
What if the drop-down edge is more than twice the thickness of the slab?

We have a simple trick for that.

Cut the SLABlite at a 45° angle. Then take the section that was cut off and make a reverse 45° cut. Position the two pieces together and secure them with hot glue.

This creates a 90° turn, redirecting the light downward into the deeper drop-down edge of the stone. This allows the SLABlite to illuminate the vertical stone edge while keeping the lighting system and substrate hidden from view.See the pictures below for an example of this technique.







SLABlite, Inc. recommends using DAP DYNAFLEX 230 CLEAR sealant to adhere the countertop to the SLABlite panels. Do not use clear silicone to adhere the countertop to the SLABlite panels.

Why is the SLABlite purple?

Every once in a while, we receive a call from a customer saying that a SLABlite has failed.

The first thing we ask for is a picture.

And almost every time, we see the same thing: a purple SLABlite.

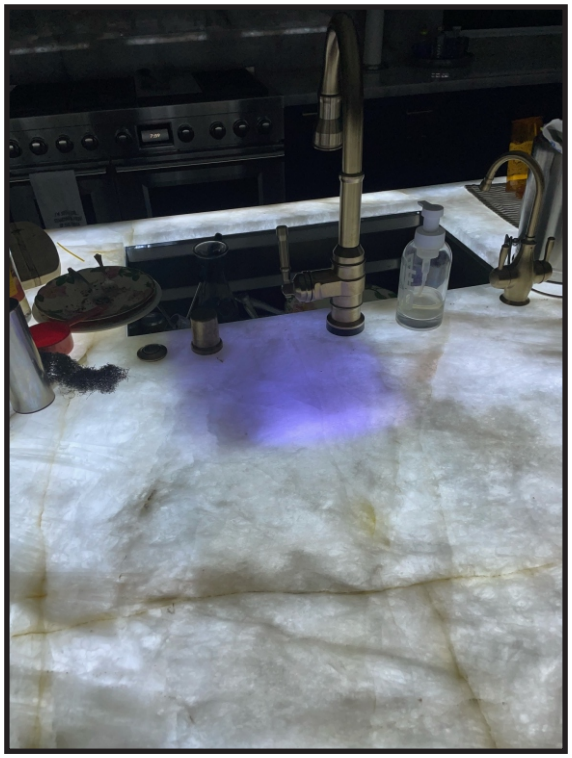
SLABlite Panels are waterproof.

However, whenever a SLABlite is cut or drilled, the newly exposed edge must be completely resealed with clear silicone. This is required even in dry locations because moisture is always present in the air. Properly sealing every cut edge protects the LEDs from moisture and helps ensure long-term performance.

Why is the SLABlite purple?

When moisture reaches the LEDs, they can turn purple. A purple SLABlite is therefore an indication that moisture has entered the panel.In the picture shown, the hole for the faucet was wet-drilled through the SLABlite. Water was used while drilling, allowing moisture to enter the panel through the freshly cut edge.

When drilling or cutting a SLABlite, do not use water. Always cut or drill the SLABlite dry, and immediately reseal all exposed edges with clear silicone.



Here is a list of supplies you might want to consider.

To adhere the SLABlite to the stone.

DAP DYNAFLEX 230 CLEAR sealant, https://smile.amazon.com/DAP-18304-DYNAFLEX-Waterproof-Sealant/dp/B0002YVNO6/ref=sr_1_1?keywords=DAP+DYNAFLEX+230+CLEAR+sealant&qid=1566424184&s=gateway&sr=8-1

To adhere the SLABlite to the substrate.

GORILLA HEAVY DUTY CONSTRUCTION ADHESIVE ULTIMATE, https://smile.amazon.com/Gorilla-8008002-Ultimate-Construction-Adhesive/dp/B07MMF7FHD/ref=sr_1_1 keywords=GORILLA+HEAVY+DUTY+CONSTRUCTION+ADHESIVE+ULTIMATE&qid=1582587911&sr=8-1

To re-seal the SLABlite.

Red Devil 0777 Lifetime Ultra Premium Elastomeric Acrylic Latex Sealant, Clear, 10.1-Ounce, https://smile.amazon.com/Red-Devil-0777-Elastomeric-10-1-Ounce/dp/B003TEH2GE/ref=sr_1_11?keywords=clear+sealant+under+%248&qid=1566426459&s=gateway&sr=8-11

Solder Seal Heat Shrink Butt Connectors Electrical Wire Connector RED

You can order the Solder Seal Heat Shrink Butt Connectors Electrical Wire Connector RED here: https://www.google.com/search?gs_ssp=eJzj4tTP1TewzEouK1ZgNGB0YPBir8wvLSlNSgUAUQAG7g&q=Solder%20Seal%20Heat%20Shrink%20Butt%20Connectors%20Electrical%20Wire%20Connector%20RED%20site%3Ayoutube.com&rlz=1C1GCEA_enUS1023US1023&oq=utub&gs_lcrp=EgZjaHJvbWUqFQgCEC4YChiDARjHARixAxjRAxiABDIGCAAQRRg5MgYIARBFGEAyFQgCEC4YChiDARjHARixAxjRAxiABDIPCAMQABgKGIMBGLEDGIAEMg8IBBAAGAoYgwEYsQMYgAQyFQgFEC4YChiDARivARjHARixAxiABDIPCAYQABgKGIMBGLEDGIAEMg8IBxAAGAoYgwEYsQMYgATSAQ0xNDczMjQyNGowajE1qAIAsAIA&sourceid=chrome&ie=UTF-8&ved=2ahUKEwj_7sDfm56AAxX8iO4BHV7tB5MQ2wF6BAgdEAE&ei=ZKW5ZP-sHPyRur8P3tqfmAk#fpstate=ive&vld=cid:d100c3f9,vid:7Wh5gM8GM70

DEWALT Heat Gun (D26950) by DEWALT
https://smile.amazon.com/gp/product/B00307B4P0/ref=crt_ewc_title_huc_2?ie=UTF8&psc=1&smid=ATVPDKIKX0DER

18 Gauge Silicone Wire Spool 100 Feet
You can order the 18 gauge wire here:
https://smile.amazon.com/Electrical-Stranded-Flexible-Extension-MILAPEAK/dp/B07CWQ6JPB/ref=sr_1_5?crid=9U5WMI02T3F0&keywords=18+gauge+wire+stranded&qid=1572456329&s=hi&sprefix=18+gauge+wire+stranded%2Ctools%2C198&sr=1-5

Here is a list of supplies you might want to consider.

5 Pack 12 AWG Inline Fuse Holder - Automotive Replacement Fuse Holder with 60 Pcs (2A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A) ATC/ATO Standard Blade Fuses
You can order the in-Line Fuse Holder here:
https://www.amazon.com/Pack-AWG-Inline-Fuse-Holder/dp/B0B3J33H38/ref=sr_1_2_sspa?crid=36IO41IF548J5&dib=eyJ2IjoiMSJ9.CUPbZcDmOiZmBmFt48mbIMMebyusIH7ultvNIFJSVDxVXNtK5I6vtLE2vce1kIXG9JteI_863Fn3vamrt33SMUWc3SBKBQXeB1RExyoUoMp9jGEWPakdWAKWv42Vw4oB8vGM-asXf_uU0iaPVO-4xtFHapsVyckToziVyqHH2p0Udb501OuZBOgC7pg-5a-fz2A1_ZndLq3JTYJZJZGqt5hhAkIEZjI3LtmbGHhj2ATG9CqfeoAPUfiDnmvQgxtABhsOe5LyIYPGKO3HsCsRMvn9KNEWLtZ8mOuzmKCiwcU.j9U0LpiSvT2bzHvWQHZ7eqngnax0OpmttZkr-e5kYvA&dib_tag=se&keywords=25%2Bamp%2Bin-Line%2BFuse&qid=1775148665&s=industrial&sprefix=25%2Bamp%2Bin-line%2Bfuse%2B%2Cindustrial%2C167&sr=1-2-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1

(For RGBW installations only)
RGBSIGHT 40FT 18 Gauge RGBW 18AWG 5pin 5 Color Stand Wire (40 Feet per Spool)
You can order RGBW wire here: ***(only if you are wiring RGBW SLABlites)***
https://www.amazon.com/RGBSIGHT-Gauge-Extension-Ribbon-Lighting/dp/B0154H7BLE/ref=sr_1_3?crid=2VDH0COFVXMO9&keywords=5+Color+RGBW+LED+Wire&qid=1654030586&s=hi&sprefix=5+color+rgbw+led+%2Ctools%2C118&sr=1-3