



Móz Backlit Metal Solutions deliver ready-to-install and include LED light strips and drivers along with optional light-diffusing acrylic backers to evenly distribute illumination throughout the feature.

Integrating lighting makes patterns pop and uses shadows to cast patterns onto surfaces, transforming **Walls, Columns, or Ceilings** into unique design elements.

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Backlighting Options

There are two common ways we integrate lighting into our products:

Direct Backlighting

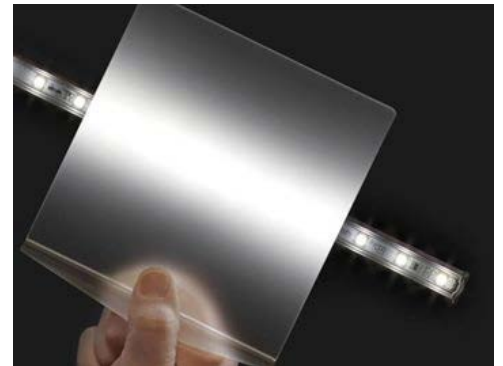
Integrating a light diffusing panel to create an even illumination for a continuous glow. The most common material is an Acrylic or a Polycarbonate.

Acrylic

- White 1/8" thick translucent Acrylic #2447 has a light transmission of approx 50%. Meaning, 50% of the light comes through and the other 50% is absorbed and diffused causing the glow of the acrylic.
- Available in a gloss or a matte surface finish. The normal gloss finish can appear plastic like whereas a matte finish provides a softer glow to the acrylic when back lit.

Polycarbonate

- 1/16" thick polycarbonate can be an alternative to acrylic as it is more flexible for cold forming and can come in larger sizes.
- Polycarbonate is lighter, and is more pliable and less brittle than acrylic which is plus for applications like flex-fitting inside of a round column.
- Polycarbonate is more expensive.



Wall Wash

A cost effective way to create accent lighting behind a laser cut out pattern is to remove the translucent acrylic and cast the LED lighting on to the wall behind known as Wall Washing or Wall Grazing. The LED light strips are normally placed top and bottom and the depth can be a bit shorter at 3" to 4" depending on the overall height.

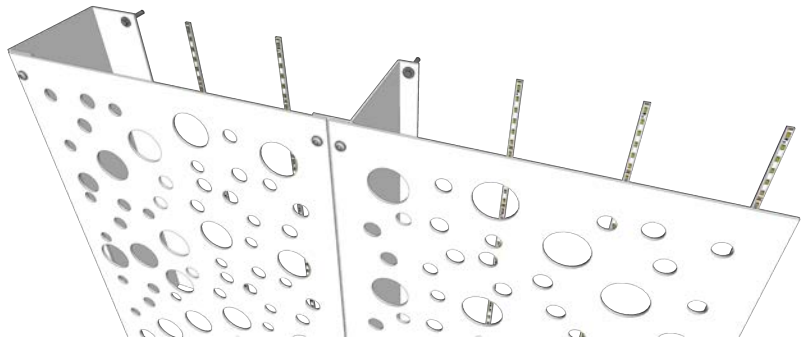
Also the wall area behind can be a different color or a different material that refracts light.

It is important to note that as the light is directed upwards and downwards, there may be some spillage of light and shadow around the perimeter. In most cases the decorative cut pattern will be the focus.



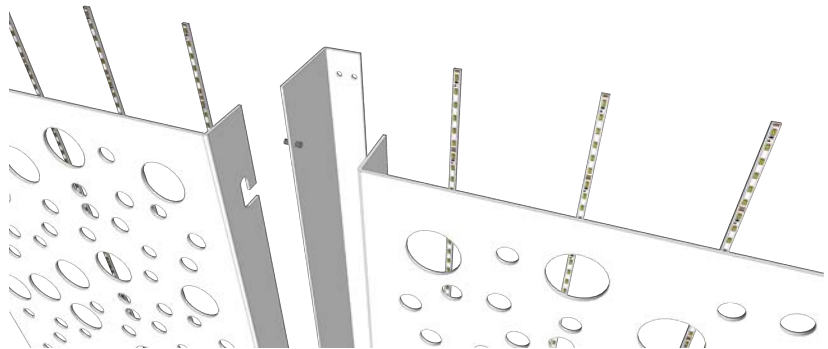
Backlit Walls

Backlighting walls can be easy with the integration of LED light strips. LED light strips are pre-mounted to an aluminum flat bar for added rigidity and then installed onto the back wall. Light diffusing translucent white acrylic is mounted to the back of the panel. Allow for at least a 6" depth from lighting to panel for proper light dispersal.



Hat Channel Wall Panels (flat panels)

The most cost effective and straight forward mounting system with visible fasteners. The channels create the minimum 6" depth to adequately disperse the 120° light spread.

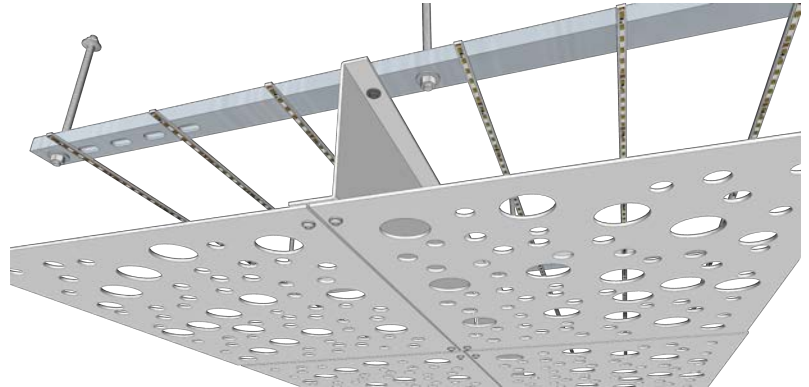


Key-Slot Wall Panels (formed panels)

For cleaner look without visible fasteners, the MoZ Key Slot system uses preformed panels with a drop and lock attachment on to a companion bracket that is anchored to the wall surface.

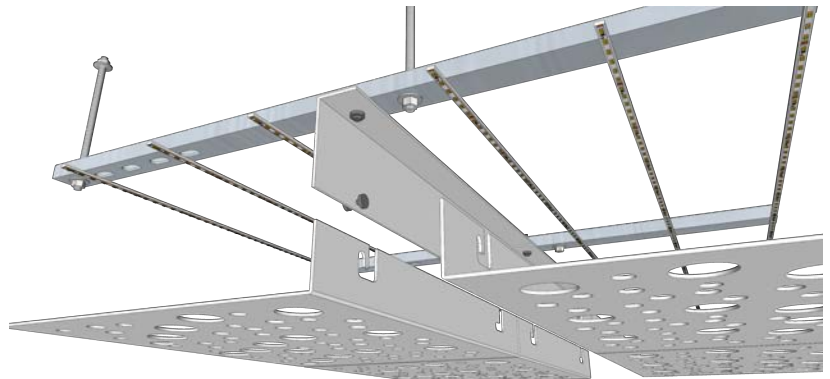
Backlit Ceilings:

Ceilings can be easily backlit similar to walls. For both situations, LED light strips with the supporting fat bar backing can be positioned above the panels and secure to the sub-framing. A 6" depth is required for proper light dispersal. Light diffusing translucent white acrylic is mounted to the back of the panel.



Hat Channel Mount (flat panels)

Similar to the wall mounting, the same hat channel with flat panels can be used to mount to a sub-frame or even a hard lid of a ceiling. This works best when set inside a recessed ceiling cove with gyp soffits on all sides. Popular for ceiling accents at such locations as porte cocheres, pre-event spaces and elevator lobbies.



Key Slot (formed panels)

Similar to the wall mounting, a modified key slot on formed panels that clip to a companion bracket that is mounted to a sub-frame or even a hard lid of a ceiling. The sub-framing to be provided by others.

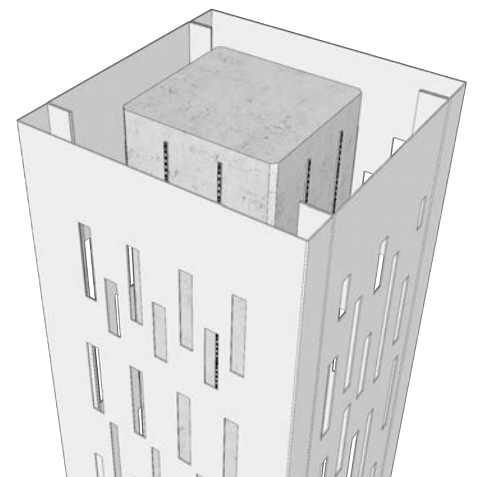
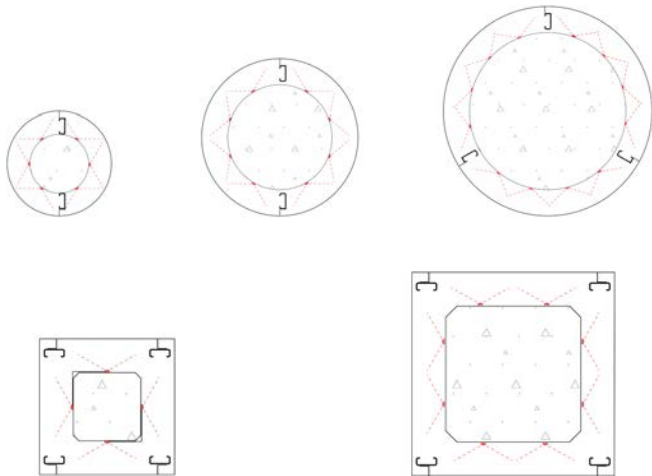
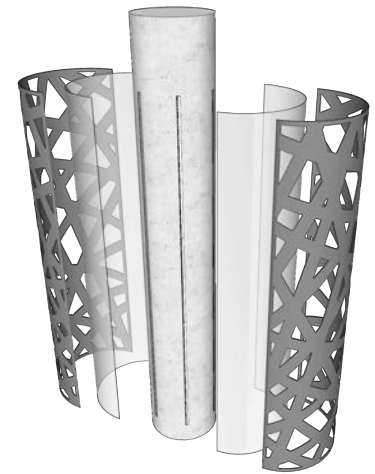
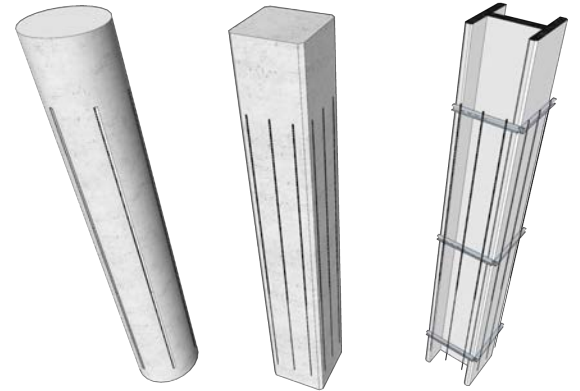
These panels do require a perimeter trim as a small gap is required to slide and lock the panels into place.

Backlit Column Covers:

Backlighting columns are typically done using the direct backlit method. The smallest diameter column we can backlight is 24" and the max segment height is 10' without a seam.


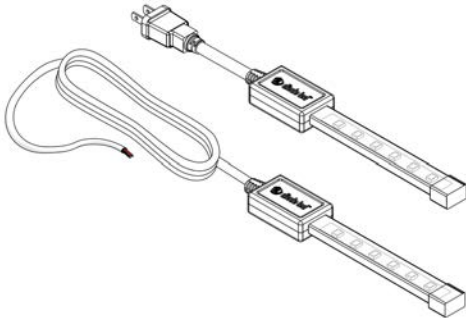

Column covers go over and surround structural columns. The type of structural column can vary, not only in size, but also shape. Most commonly, the structural columns would be either round concrete, square concrete or a steel i-beam. Position of the LED light strips will go onto these structural columns and exact position will vary pending the size and number of sections.

Column covers will require varying amounts of LED depending on the size and diameter of the surround. A typical 6" gap from the LED lights to the back of the cover applies. The surround size will dictate the number of LED light strips needed. If there is more internal space, such as a small diameter structural column with a large diameter cover, less LED strips may be needed.



Standard LED Lighting Styles

The LED light source for the MOZ products will most likely be one of the following:

 <p>The image shows two LED strip lights. One is a long, thin strip with multiple small LEDs spaced along its length. The other is a shorter, wider strip with a black rectangular driver unit attached to its side. The driver unit has some text and a small label on it.</p>	<p>LED strip lights with drivers (most common)</p> <ul style="list-style-type: none"> • Strips laminated to an aluminum bar for easy installation • Requires 24V Drivers • 6" depth spacing required • 120° beam spread of light • Strips are 3/8" wide and 1/8" in height • Most common <p>Note: Junction boxes and drivers can be placed where most convenient within 30' of the panels.</p>
 <p>The image shows two LED strips connected to a power source. Each strip has a small, rectangular driver unit integrated into its length. The strips are connected to a power source via a cable with a connector.</p>	<p>LED strips with driverless system</p> <ul style="list-style-type: none"> • Integrated 120V AC and does not require separate drivers • 6" depth spacing required • 120° beam spread of light • Larger strip size 5/8" wide by 3/8" tall and available in longer lengths • Ideal for exterior damp locations
 <p>The image shows a series of LED strips connected by wires to create a curtain-like system. The strips are arranged in a grid pattern, and the wires are visible connecting them. The strips are illuminated, showing a warm white light.</p>	<p>LED curtain system</p> <p>A series of LED Bars connected by wires to create a curtain like system</p> <ul style="list-style-type: none"> • Requires 24V Drivers • 4" depth spacing required • 170° beam spread of light • More expensive but needed when limited on space. • Curtain size typically 20" wide and can be repeated and shaped to various sizes • Recommended for Perforated Metals <p>Note: Ideal for recessed area where minimal spacing is available</p>