

applelec™  
lighting



AURAGAMI FROM  
APPLELEC LIGHTING





## A HIGHLY FLEXIBLE BACKLIGHTING SOLUTION

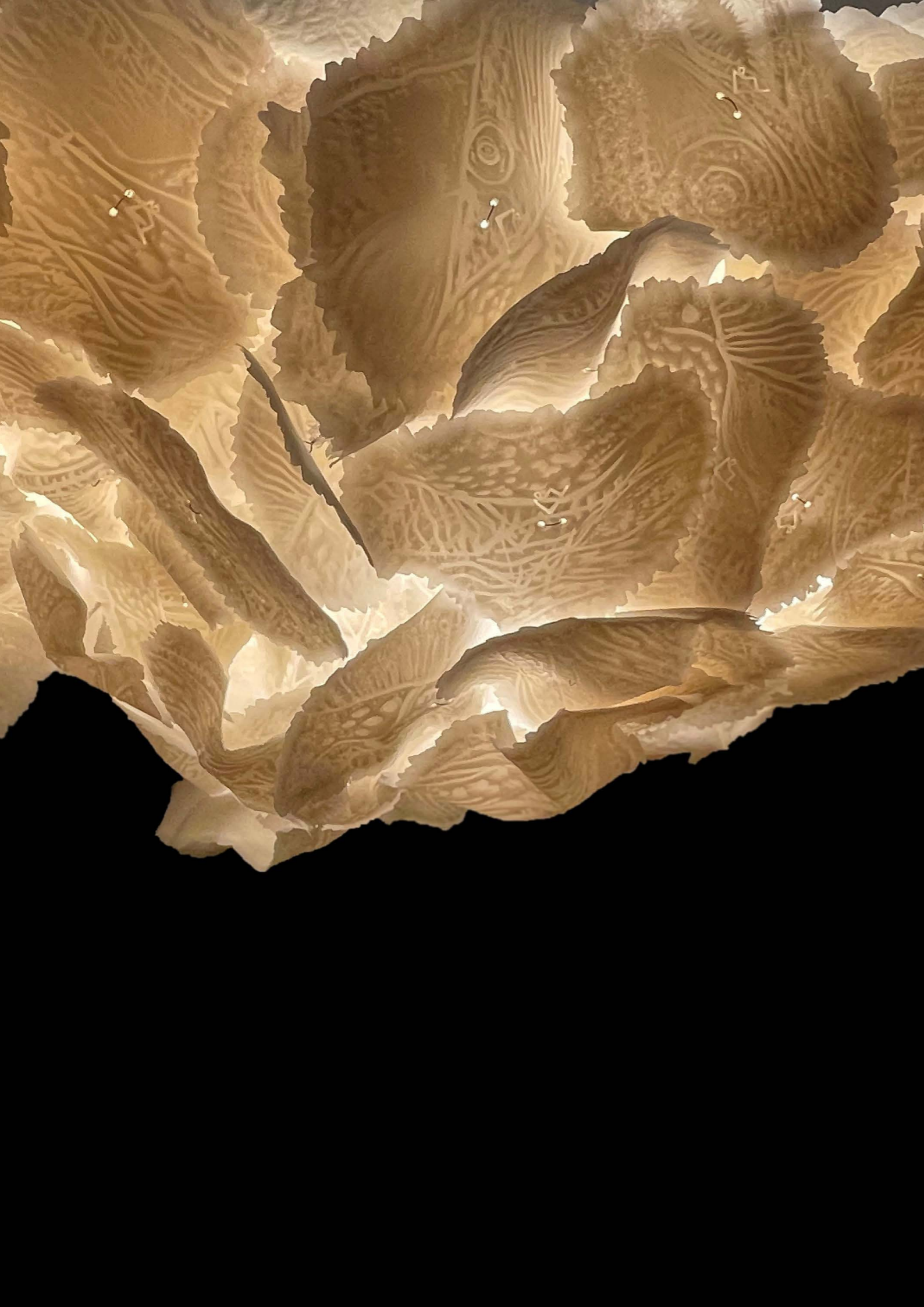
### SHAPE IT...

Providing backlighting to sharp edges and corners, Auragami from Applelec Lighting can be shaped over an impressive 90° angle, delivering consistent and flawless illumination to a range of applications such as countertops, tables and shelving units.

### WRAP IT...

The engineering of Auragami from Applelec Lighting enables the light panel to be seamlessly wrapped around columns, pillars or layered over curved surfaces for achieving unique and striking lighting designs. The quality of manufacture ensures the light panel delivers uniformed illumination, guaranteeing a premium finish for backlighting schemes.





## EASE OF INSTALLATION

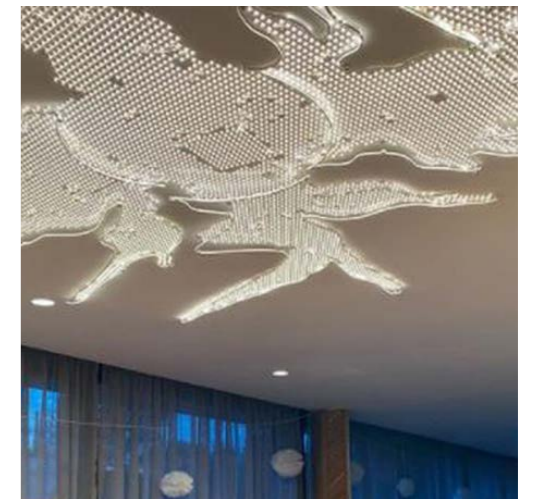
### CUT IT...

Providing ease of installation, Auragami from Applelec Lighting can be easily cut on site to meet individual project requirements. This cuttable facility provides complete installation flexibility, helping to create a clean line finish by trimming accurately around any awkward fixings or unforeseen obstacles as well as to facilitate any last-minute project alterations.



### FIX IT...

Featuring an adhesive 3M backing, Auragami light panels can be simply fixed to any dry, clean, level substrate. With quick wire connectors panels can be seamlessly joined together to make the backlighting solution scalable for achieving even homogenous light over large surface areas.



**Project:** Bespoke ceiling luminaire  
**Location:** London  
**Designer:** Andra Munro Design

## POWERFUL BACKLIGHTING FOR DENSE MATERIAL

Utilising tight pitch, powerful LEDs, Auragami from Applelec Lighting is the perfect solution for delivering luminous backlighting for particularly dense surface material of up to 20mm depths.

The construction of the light panel provides smooth and seamless illumination that elevates the appearance, detailing and colouring of heavy decorative stone.

**Project:** Eaton Mews North  
**Location:** London  
**Designer:** Jess Weeks Interiors





## PICK YOUR COLOUR...

Helping to complement individual design aesthetics, Auragami from Applelec Lighting is available in a wide variety of LED options from cool to warm white, 2700K, 3000K, 3500K, 4100K, 5300K, 6500K and RGBW with 5300K white, along with tuneable white sweeping through 2700K-6500K and dimmable options.

## APPLICATION FREEDOM

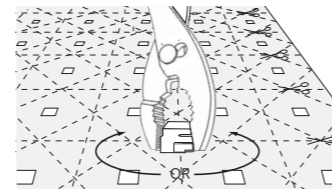
Auragami from Applelec Lighting carries an IP65 protection class, making the backlighting solution ideal for application where moisture is present such as kitchen splash backs and bathroom schemes or for external use.

## AURAGAMI® DRY FITTING, CUTTING\* AND FOLDING

Dry fit the sheets and connection wires before mounting the Light Sheets to the substrate. **Always test function before installing the translucent (forward facing) material.**

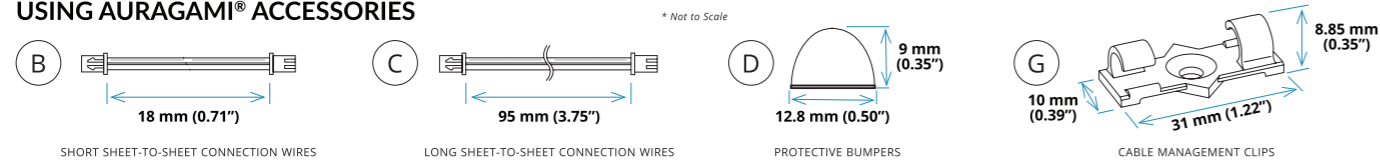
To make a fold in an Auragami Light Sheet, bend the sheet along one of the dotted lines marked on the sheet, then crease along this line, then relax the fold into a 90° (or other desired) angle. **Be careful about folding where an LED is attached to the sheet since LEDs can break if forced over an edge. Do not repeatedly fold and unfold along the same line as this will weaken the flexible PCB. Do not fold a Light Sheet back onto itself, however two separate Light Sheets can be attached back-to-back.**

To make a cut in an Auragami Light Sheet, use shears, scissors, a utility knife and/or a precision/craft knife. Cut on horizontal, vertical and/or diagonal lines. Deviating from the lines could cut off power to one of more LEDs. **If a cut edge has the possibility of making contact with a conductive surface or another cut edge, cover the cut edge with RTV sealant or conformal coating.** If one or more connection blocks exist on a cut/fold line, it is best to remove the connection block\* to make a clean fold or cut. Using a pair of slip-joint pliers, grasp the connection block firmly (front side to back as illustrated at right) and rotate it either clockwise or counterclockwise while holding the Light Sheet in place. The connection block will unseat from the solder. Repeat for other connection blocks as needed and discard the removed block(s).



**\*NEVER CUT OR ALTER LIGHT SHEET(S) WHILE POWERED.**

## USING AURAGAMI® ACCESSORIES



**Short sheet-to-sheet connectors (B):** When adjacent Auragami Light Sheets are mounted side-by-side with connection blocks aligned, the shorter sheet-to-sheet connection wires (B) should be used to interconnect multiple sheets. Their lengths are optimized so sheets align snugly. See Figure 1. When connecting Light Sheets that are already mounted to a fixed surface, the short connection wires (B) will need to be shaped as shown in Figure 2 prior to pushing into connection blocks. Best practices include using two sheet-to-sheet connection wires for all adjacent Light Sheets in each Class 2 circuit to minimize voltage drop. Dry-fit test for proper illumination prior to mounting Light Sheets to the mounting surface and again before the forward facing material is installed.

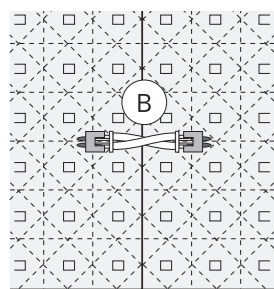


Figure 1

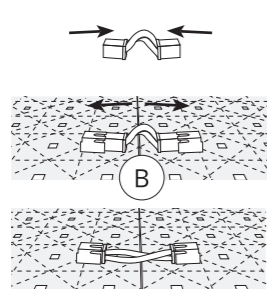


Figure 2

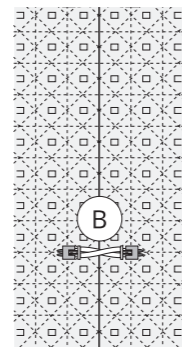


Figure 3

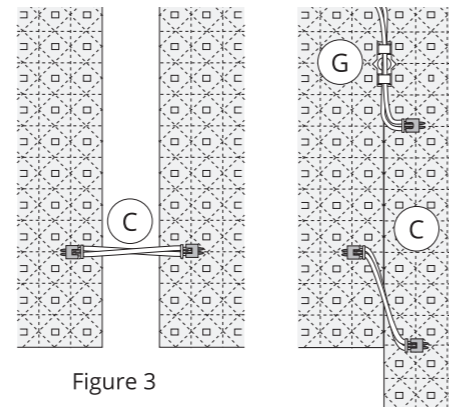


Figure 4

## Long sheet-to-sheet connectors (C):

Use the long sheet-to-sheet connection wires (C) to bridge gaps and/or connect offset sheets as shown in Figure 3.

## Domed protective bumpers (D):

Rated for 400 lbs each, the domed protective bumpers (D) included with each Light Sheet have been engineered to bear the weight of translucent materials in horizontal applications and act as a safeguard in vertical applications so that the forward facing material does not harm the Light Sheet's integrated connection blocks or LEDs. We recommend using eight bumpers per Light Sheet (approximately six per square foot), spacing them evenly to distribute the weight of the forward facing material (see Figure 4) and to add a level of protection in vertical applications when the forward facing material will be positioned near the Light Sheet (see Figure 5). A rigid, non-deforming mounting surface/substrate must be used with any weight-bearing applications to avoid damaging the Auragami Light Sheet.

## Cable management clips (G) (included in the power input kit sold separately):

Route the connection wires so that the light from the LEDs is not blocked and hold the wires in this position using cable management clips with silicone adhesive backing (G) as shown in Figure 3. Once applied, let this adhesive backing cure for 10-30 minutes before routing wires through the clip. When possible, use a mechanical fastener to secure the clip.

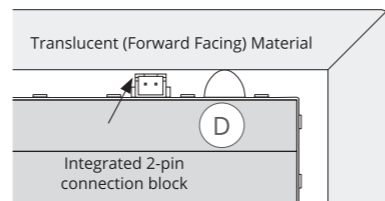


Figure 4

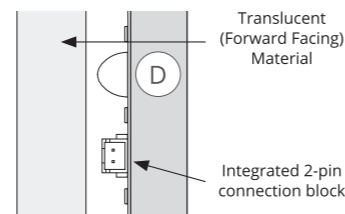


Figure 5

## POWER INPUT

Use only with Class 2 power units. To avoid visible brightness variances due to voltage drop, the total distance should not exceed 6.5 ft (2 meters) from the Light Sheet's power supply input to the farthest end of any interconnected sheet. If this distance exceeds 6.5 ft (2 meters), splice an additional high count multi-strand lead wire (that is the appropriate gauge for the load and distance) to the power input wire and connect this lead to a sheet that is centrally located within the interconnected sheets. Alternatively, split the length in two and power each with its own power supply, making sure the two sections are not connected electrically (see Figure 6).

## One power input is required for each Class 2 circuit

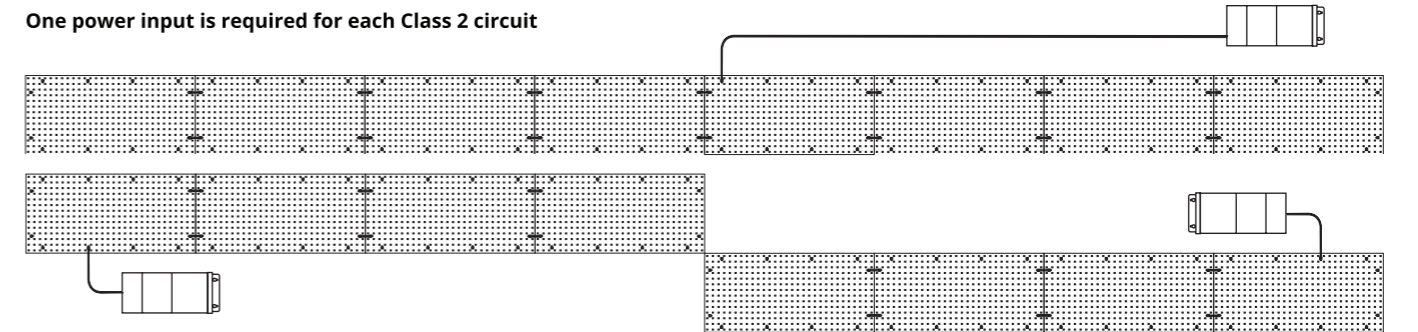


Figure 6

## Power Input Kit, SKU: AG1-24-SCW-PIK (sold separately):

Includes one 48" (1219.2 mm) 20 AWG 2-conductor power lead wire with stripped & tinned ends (E), two Wago connectors (F) and four cable management clips with silicone adhesive backing (G) (see Figure 7).

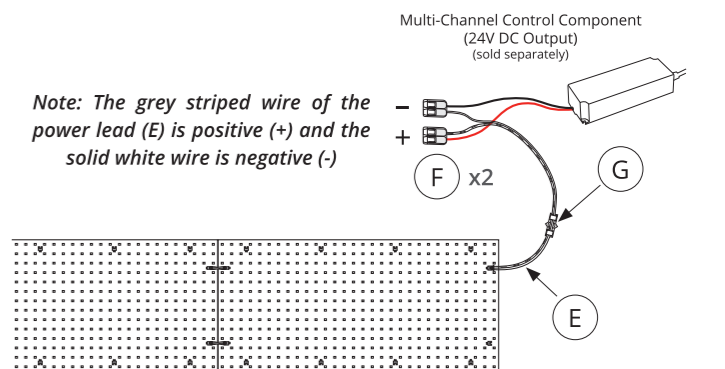
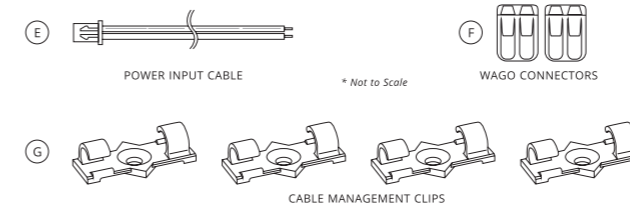


Figure 7

Use the power lead (E) to route power from the power supply to a single Light Sheet or a set of up to eight Light Sheets. Use Wago connectors (F) in place of wire nuts, for a secure connection of wires of the same polarity (see figure 7). Do not exceed the 4 A maximum load capacity of a connection block in any configuration nor interconnect more than eight sheets (88 W total). If any Light Sheet fails to light, check that the sheet-to-sheet connection wires are fully connected into the 2-pin connection blocks. If the whole layout fails to light, check polarity at the power supply, proper connection at the splicing connectors, and supply power at the source.

Light Sheets are dimmable, compatible with full-range (100% - 0%), flicker-free power and control components. Barrel connectivity options / accessories are sold separately for use with barrel connected plug-in power supplies. Contact us for optimal power and control solutions to fit the project needs.

## MOUNTING LIGHT SHEETS

Various mounting methods may be used to secure the Light Sheets to the mounting surface after the dry-fit and operation tests are complete. Use the appropriate method or combination of methods depending on the type of mounting surface and its orientation. Mechanical fastening is recommended in addition to the adhesive back.

**Mechanical Fasteners:** Any penetrations through the Light Sheet must be made inside the concentric circles marked on the sheet. The smaller diameter circle on the Light Sheet indicates the maximum diameter of screw or other fastener that can be used without causing damage to the Light Sheet's power distribution grid. The larger diameter circle is the maximum diameter of the screw head that can be used without causing damage. See Figure 8. For suspended applications, use mechanical fasteners with an appropriate spacing to avoid sagging. Use pan head, domed, or round head screws – not tapered screws (like wood or drywall screws) nor self-tapping screws – and never screw the fastener so much that it deforms the Light Sheet. See Figure 9. **Re-test function before installing the translucent (forward facing) material.**



Figure 8

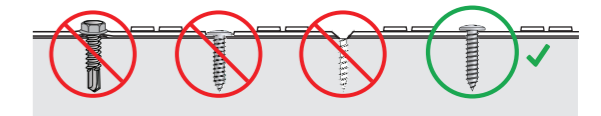


Figure 10



Get in touch with our Auragami from  
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