Backlit solutions

We are offering a variety of backlit solutions depending on the interior design, the required light effect, the material which has to be illuminated and the space available for installation.

According to the design, we are choosing LED modules or strips in single, different white colors, RGB or RGBW color changing LED chips or even intelligent LED display solutions which are able to combine light effects with video content display.

Limited space for single, RGB and RGBW backlit solutions

We are using logarithmical lasered acrylic panels. The homogeneous light output is ensured through the special lasering of the acrylic glass.

The acrylic panels are available in depths between 8 - 15 mm.

The rigid or flexible LED lines are fixed in the recess which is milled according to the dimension of the LED line into the side of the panels. We are using small LED pitches to optimize the viewing angles of the LED strip. To enhance the light output, a white diffuser is recommended to be used on the back of the acrylic panel. To avoid seeing the lasered structure on the panel we recommend to use a TRUE LED diffuser on the front.

Backlit solutions (40 -80 mm) space for single, RGB and RGBW LED strips

When the installation depth is exceeding 40 mm, the distribution of the LED viewing angle is sufficient to reach a homogeneous light output, sometimes supporting by using additional lenses which even widen the viewing angle of the LED strips..

Therefore single color, RGB or RGBW LED stripes lines are mounted on an under construction. Depending on the installation depth, we are recommending the space between the LED strips between 40 - 80 mm to be mounted on the under construction.

LED Stripes and display modules recommended for backlit solutions

Maera 96, Maera 144, Maera 224, Maera Twin, Maera RGB

Galatea 96, Galatea 224, Galatea Twin, Galatea RGB, Galatea RGBW
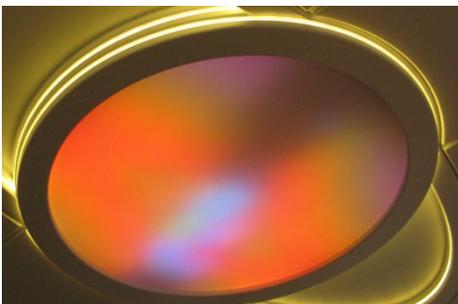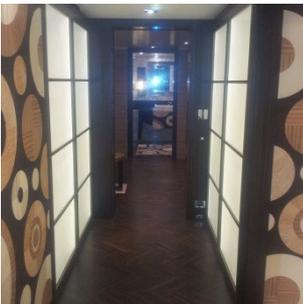
LED DISPLAY 31.25

Examples

Ceiling and bathroom backlits using Maera 96 mounteg on under construction

Galatea RGB and RGBW stripes mounted on under construction using front diffusers.

Lasered backlit panel 10 mm thickness assembled with

Galatea 224 LED.

Ceiling panel using a combination of Galatea strip for the recess and LED display 32.25 panel incl. front diffuser