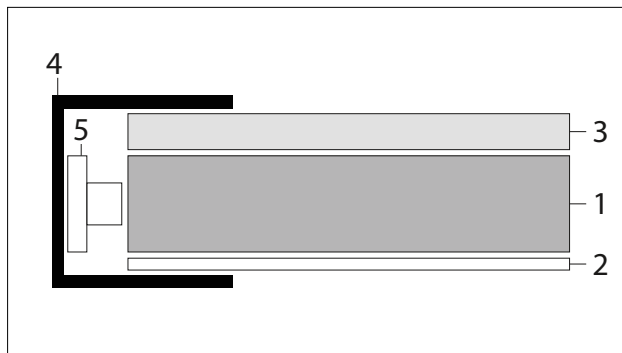
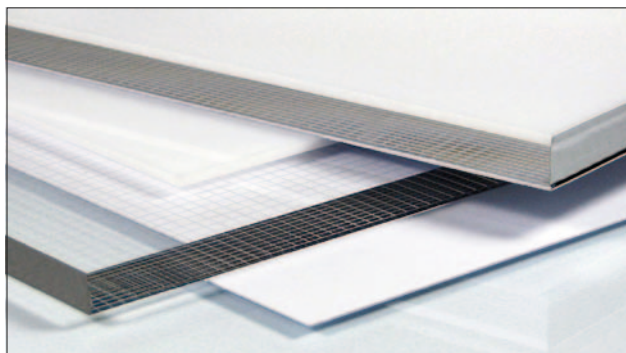


Streuscheiben Flat Lights



Flat lights are illuminated surfaces, where the light input is supplied from the edges and not as backlight. So it is possible to produce significantly more homogeneous light guides with considerably less thickness. Each light panel is made individually according to your requirements, which means that you define the size. Dimensions up to 1200mm x 1800mm (special length up to 3000mm) are possible.

1. Scratched acrylic plate

The key component of a flat light is the scratched acrylic plate. The scratching enables the light from the edges to be scattered and so it becomes visible on the surface. The grid dimension depends on the width of the panel and is applied with or without gradient. A mirror-like film is glued to the unlighted edges to redirect the light back to the screen and to avoid a loss of light.

thickness: 8mm (standard), 4-12mm possible - material: acrylic

2. Reflection film

The reflection film on the backside prevents light radiation to the rear and makes sure that the whole light quantity will be emitted to the front.

thickness: 0.5 oder 1mm - material: PVC

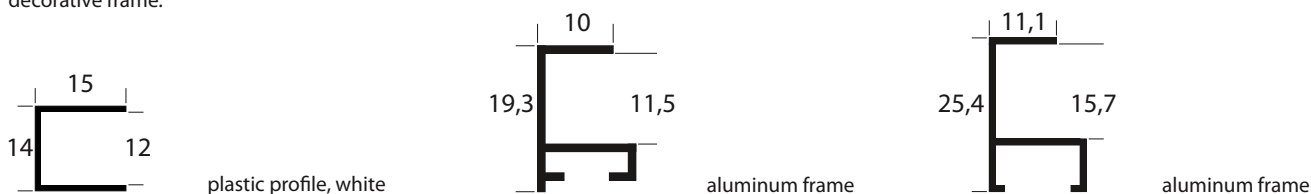
3. Diffusion plate

The diffusion plate is responsible for a homogenous illumination of the surface. Without that plate the engraving remains visible. Instead of the diffusion plate you can also use printed foils with a similar effect.

thickness: 2 oder 3mm - material: acrylic

4. Profile

The main function of the profile is to fix the illuminant to the acrylic plate. According to the type, the profile is also a mounting part or even a decorative frame.



5. Illumination

Depending upon the size of the light panel, the illuminants are mounted on one, two or four sides. Various LED-Stripes can be used according to the width of the flat light and the requested brightness. You can choose between pure white in different color temperatures as well as between special colors or RGB (for color change).

for example:

LED-Stripe, 120LED/m (3528), white, 24V DC, 9.6W/m: max. width with LED-stripes on two sides - 1200mm

LED-Stripe, 120LED/m (3528), white, 24V DC, 9.6W/m: max. width with LED-stripes on one side - 600mm

LED-Stripe, 60LED/m (5050), RGB, 12 oder 24V DC, max. 14.4W/m: max. width with LED-stripes on two sides - 800mm

LED-Stripe, 60LED/m (5050), RGB, 12 oder 24V DC, max. 14.4W/m: max. width with LED-stripes on one side - 400mm