

The luminous panels can be used for backlighting translucent foils or plates such as digital prints or acrylic glass panes.

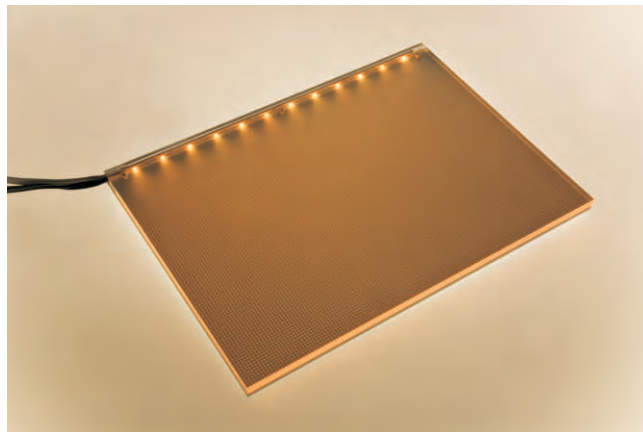
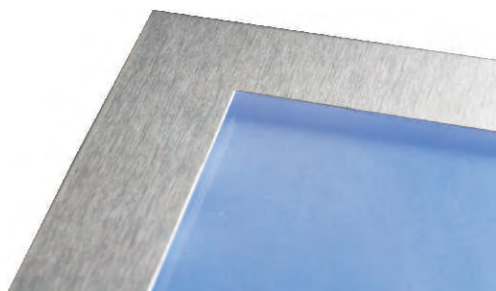
In the past, special light boxes equipped with fluorescent lamps or neon tubes had to be built for this purpose.

In comparison to these light boxes the **hansen**-luminous panels offer the following advantages:

- **Extremely flat:** The overall depth of 11 mm allows very flat illuminated banners to be built. A double-sided design is also possible with an overall depth of 19 mm.
- **Low energy consumption:** The LED-illuminated panels provide huge energy-savings. In view of rising energy prices, energy efficiency becomes more and more important. Some energy consumption figures can be found on the next page.
- **Aesthetic design:** Thanks to their flat design, the luminous panels can be used to build very elegant and stylish framings or illuminated coffers in ceilings and walls.
- **Low weight:** The weight of the luminous panels is approximately 13 kg/m<sup>2</sup>. Since they do not require an additional box but only a frame, the panels are considerably lighter than conventional light boxes.
- **Bright LED light:** LEDs are the latest trend. The cold-white LED light is particularly bright, modern, and has a positive effect on the motif.
- **Coloured light:** Coloured or RGB LEDs can be used very simply. With RGB LEDs, attractive colour changes or colourful light effects can be implemented.
- **Low maintenance:** The illuminant, i.e. the LEDs, do not have to be exchanged during the entire service life of the LEDs (30,000 bis 50,000 hours).

Installation example:

Detail LED luminous panel and magnetic frame



The luminous panel is designed to be built into a frame or housing provided by the customer. The dimensions (length and width) can be specified by the customer. The maximum possible size is 2,000 x 1,200 mm.  
· Larger dimensions are available on request ·

The luminous panel consists of two acrylic glass panes - an 8 mm transparent pane lit from the edge by LEDs, and a 3 mm white pane located behind the transparent pane to reflect the light towards the front.

The 8 mm pane consists of a special type of acrylic material which directs the incoming light from the edge towards the surface. The uniformity of this effect is enhanced by a laser-engraved pattern on the rear of the pane ensuring a uniform light distribution.

Depending on the size of the pane, the LED light is shone into the material from one or two sides. The LEDs are mounted on an oblong circuit board (LED strip) housed in a groove running along the edge of the pane.

If desired, the luminous panel can be prepared for outdoor use or installation on building facades. In this case, the (series connected) LED circuit boards will be enclosed in a weather-proof heat shrink tubing. Please state in your enquiry or order if the panel is to be used outdoors.



Technical modifications reserved. Sept. 2011 Content is protected by copyright. Source: [www.hansen-led.com](http://www.hansen-led.com)