

LED News from

SIGN-TEC SERVICES

The latest LED products from *hansen!*

Letter Shaped LED Boards - efficient illumination of channel letters.

This special type of LED board provides a very compact means of illuminating channel letters. It consists of a letter-shaped high-resistance foam board with milled recesses for the LEDs and connecting wires. For safety reasons all electrical parts are hermetically sealed in a transparent filling compound.

- Simple installation - LEDs are pre-installed & sealed
- Time & cost savings - just insert the board in your letter
- Adapted light distribution - LED spacing varied as necessary
- Identical signs for series production
- No size limit for large letters - letters of up to 80/100cm are machined from a single piece of High Resistance board. Larger letters are split into 2 or more segments.
- Letters with translucent sides can be illuminated evenly.

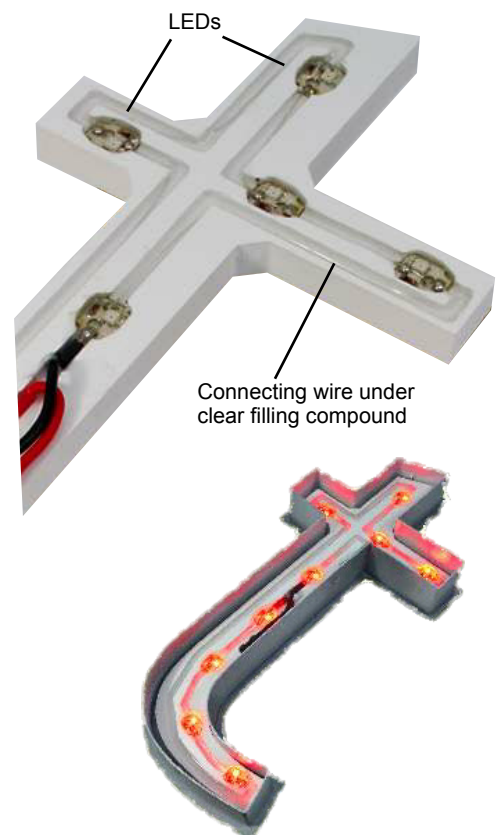
Boards are produced to your drawings at the Hansen factory - usually shipped in one week.

All you have to provide are:

- A vector drawing of the sign (ESP, AI, CDR or comparable)
- The type of profile of the letters
- The overall depth
- The desired colour of the lighting.

Based on this information, we calculate the required LED layout and the quotation is prepared, with a detailed drawing and list of components required.

Call for your quotation!



New Standard-Plus LEDs - highly efficient diodes, now available in Hansen LED products

- Powerful 0.2W LEDs in White 6500°K giving 13 Lumen / 5300 mcd per LED
- High efficiency - 74 Lm / W
- Available in Hansen's LEDtube, 12V Circuit Boards, Edge Lit panels and Letter Shaped boards where extra light is required.
- Competitive pricing with other bright LEDs - i.e. LEDtube from £2.25 per LED before discounts

Notes:

¹⁾ The colour temperature value is a typical value and may deviate by up to +/- 10 %. In some cases, the "real" colour temperatures of the current production can be obtained on request.

²⁾ The lumen per watt (Lm/W) values have been calculated using the formula below (using the luminous flux according to the manufacturer's specifications. The power loss of the ballast or any power loss in series resistors or constant current regulators (e.g. in 12 V operation) is not taken into account in the calculation.

$$\text{Luminous efficacy (Lm/W)} = \frac{\text{Luminous flux (Lm)}}{(\text{Mean}) \text{ forward voltage (V)} \times \text{Operating current (A)}}$$