LGP
Light Guiding Prismatic Plate

The LGP decouples light which is fed into the sheet from the sides across the surface area by the integrated prismatic optics. The optical structure is not acting as a diffusor but uses reflection and refraction of the microprisms. The direct portion of the light is usually also de-glared.

Key features

- LGP decouples light fed in from the edge, uniformly and directed across the wide surface area
- Light extraction through a calculated combination of light refraction and total internal reflection of the integrated optical elements
- About 40% of light indirectly in a batwing
- About 60% downlight, de-glared
- Transparent look when not lit
- Homogenous light output for a panel width of 300 mm (LEDs single sided) or for a panel width of 600mm (LEDs double sided)
- Efficiencies up to 85%
- Ultra-thin fixture profiles
## LGP
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### Product data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>standard material</strong></td>
<td>PMMA clear (acrylic) PC upon request</td>
</tr>
<tr>
<td><strong>dimensions</strong></td>
<td>rectangle up to 1500 mm x 300 mm square up to 600 mm x 600 mm</td>
</tr>
<tr>
<td><strong>thickness</strong></td>
<td>6 mm (3.0 up to 8.0 mm upon request)</td>
</tr>
<tr>
<td><strong>prism structure</strong></td>
<td>standard, customer specific</td>
</tr>
<tr>
<td><strong>refractive index</strong></td>
<td>1.491</td>
</tr>
<tr>
<td><strong>transmittance</strong></td>
<td>92 % (acrylic clear)</td>
</tr>
<tr>
<td><strong>temperature range</strong></td>
<td>-40°C up to +80 °C (acrylic)</td>
</tr>
<tr>
<td><strong>customization options</strong></td>
<td>development of prismatic microstructures for your specific applications, tooling and series production</td>
</tr>
</tbody>
</table>

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**Optics Data Sheet**

**Light distribution as simulated in reference luminaire, ldt file available upon request**

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**LED**
- **reflective frame**
- **direct**
- **indirect**

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