

LUCITE® DIAKON®

PERSPEX®  
FROM LUCITE®

Lighting Solutions  
Lichtanwendungen  
Solutions d'éclairage



LUCITE®  
The source of inspiration

## LUCITE® LIGHTING SOLUTIONS

### Let there be light – with Lucite®

Since the dawn of time light has been an essential part of life – and today more than ever light plays an integral part in the way we lead our lives.

Lucite® has a range of lighting solutions that can improve the way we manage light, change the way we light our homes and offices, change the way we shop and ultimately the way we live.

- ❑ In the home

Create mood and atmosphere and help define or change the functionality of a space.

- ❑ In the office

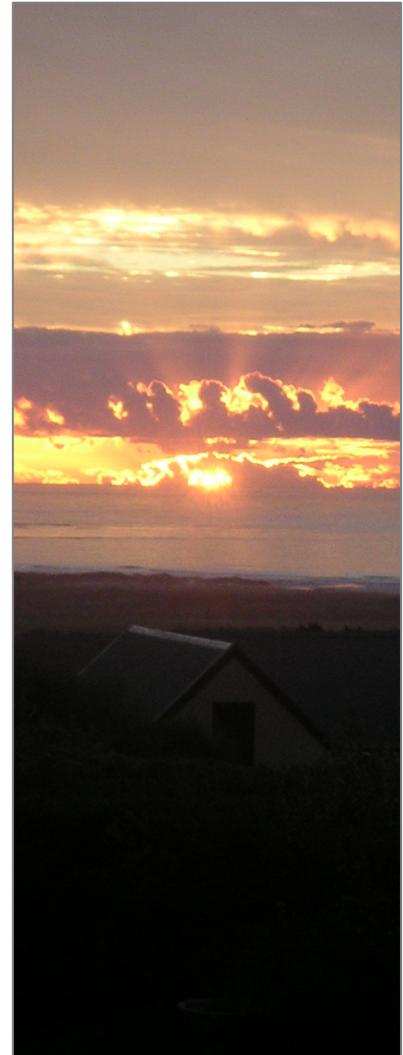
Change the way people interact and improve the way they work.

- ❑ In retail environments

Turn browsers into buyers and unused floor space into stunning centrepieces.

- ❑ Outdoors

Manufactured light in street signs, street furniture and advertising hoardings.



Darwen Site,  
Lucite International  
has been awarded the  
Carbon Trust Standard

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**Tel: +44 (0)1254 874000**  
[info@lucitesolutions.com](mailto:info@lucitesolutions.com)  
[www.lucitesolutions.com](http://www.lucitesolutions.com)

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## LUCITE® LIGHTING SOLUTIONS

### What do you want to create?

Your lighting objectives will drive the lighting technology.

We have a wealth of experience in many of the most advanced lighting devices and techniques – from what to look for in contemporary, inspirational lighting, to the best type of light source for your needs, to which material to choose, right through to putting you in touch with experts in related technologies and materials.

Think what you want to achieve. Is it any of these?

- Diffused lighting to create mood?
- Specific directional lighting?
- Task lighting in kitchens or bathrooms?
- Edge-lighting or back lighting to enhance signs or point of sale displays?
- 100% pure lighting to eliminate shadows in environments like operating theatres?
- Light therapy for health and well-being?



Nahoko Koyama

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info@lucitesolutions.com  
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## LUCITE® LIGHTING SOLUTIONS

### Open your mind to Lucite®

Acrylic is the cornerstone to the Lucite® solutions family and has a natural affinity with light.

Unique physical and technical properties make acrylic the natural choice when looking for a material to both optimise light and creatively manage light to achieve a wide variety of lighting effects.

Light transmission that's better than glass – up to 92%

Lucite® acrylic sheet and Perspex® from Lucite® acrylic sheet have excellent light transmission properties. Perspex® clear sheet is better than glass (92%) and can not only transmit light – but can also reflect, refract and diffuse light to create stunning visual effects.

Tantalising choice of colours and effects

- ❑ Clear, opal, tint or translucent shades, solid and opaque colours.
- ❑ Textures such as Perspex® Frost and Perspex® Fluorescent.
- ❑ Special effects such as Perspex® Secret Sign for dual messages.
- ❑ Perspex® VA/VE to protect from ultraviolet light.



BoBo Design Ltd

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# key points

Trust our leading solutions for performance

- ❑ **Perspex® from Lucite® acrylic sheet.** Designed to offer the best solutions for creative light management. Wide range of applications and superb technical performance properties. Exceptional clarity, superb fabrication, chemical resistance, easy cleaning and outstanding weathering – an outstanding combination found in few other materials or plastics. See separate 'key points' sheet.
- ❑ **Lucite® Diakon®.** All the high quality performance characteristics you expect of Perspex® and other Lucite® solutions with the added benefit that you can extrude the material into a range of stunning shapes.



## LUCITE® LIGHTING SOLUTIONS

### Extensive portfolio of solutions

Lucite® has a range of solutions specifically designed to give optimum performance across a wide range of edge lighting and sign applications.

- ❑ Perspex® from Lucite®

Wide variety of sheet grades and solutions to create magical effects in signs, displays and a variety of other visual applications.

- ❑ Perspex® Prismex®

Ideal for bespoke speciality applications e.g. wall cladding with slim even illumination, lighting panels that give extra vibrancy and life to photography and graphics.

- ❑ Perspex® S-Lux

Perfect for small signs, large poster boxes and Euro posters.

- ❑ Perspex® D-Lux

Specially developed for small double sided poster boxes and extra bright single sided sign boxes.

- ❑ Lucite® Diakon®

Specially produced polymer solution for light management applications where intricate shapes and/or extra strength are required.



Bright Green Technology  
[www.brightgreentechnology.com](http://www.brightgreentechnology.com)

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**PERSPEX® FROM LUCITE®**  
**PRISMEX®**



**Speciality lighting solutions**

Perspex® Prismex® is a speciality acrylic sheet solution with a patented dot matrix on the surface of the material which reflects and refracts light across the sheet to give maximum, bright, even illumination.

Example applications

- ❑ Wall cladding with slim even illumination
- ❑ Lighting panels to give extra vibrancy and life to photography and graphics
- ❑ Dramatic stage sets in theatres and studios

Bespoke solution

Most requirements for Perspex® Prismex® are bespoke. There's no such thing as a typical application.

Tailor-made service

We offer a complete, tailor-made, service package through our network of experienced and skilled trade partners who can offer advice in all areas from product assessment right through to final installation.



Scriptus



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## PERSPEX® FROM LUCITE® S-LUX

### Even illumination – one-sided signs

Perspex® S-Lux is an acrylic sheet solution with a special textured finish on one side of the sheet.

This produces an even illumination across the sheet giving excellent edge lighting performance for a variety of sign applications.

Bigger the size of sign – thicker the Perspex® S-Lux

Different Perspex® S-Lux sheet thicknesses have been especially designed to give optimum edge lighting capability for your chosen sign size.

Eye-catching small sign?

If you're looking to create an eye-catching small sign (typically under A2 in size) for a busy retail environment we recommend Perspex® S-Lux in 5mm or 8mm thickness for truly outstanding results.

Large poster boxes? Or outdoor advertising?

Freestanding retail display or a stand-alone exhibition? Perspex® S-Lux in 8mm or 12mm thickness will give you a result that really stands out from the crowd.

For large Euro-posters in outdoor advertising or street furniture or in-store promotions 12mm Perspex® S-Lux will give you the edge.

About Perspex® Lux range. Perspex® S-Lux and Perspex® D-Lux are quality edge lighting acrylic sheet solutions specially developed to give optimum performance across a wide range of applications – typically signs, POP/POS, retail displays, outdoor advertising, street furniture.

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Smith-Brewer



Burri AG

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**PERSPEX® FROM LUCITE®  
D-LUX**

**Even illumination – two-sided signs**

Perspex® D-Lux is an acrylic sheet solution with a special textured finish on both sides of the sheet.

This produces an even illumination across the sheet giving excellent edge lighting performance for a variety of sign applications.

**Typical applications**

For in-store promotions and signs in public areas where you need to convey messages and graphics from multiple angles and directions.

**All the benefits of Perspex® S-Lux – but both sides**

Perspex® D-Lux has the same superb light management properties as Perspex® S-Lux for graphics and photography – but does it from both sides. On small size signs you also experience even greater brightness.

**One thickness for exceptional performance**

Perspex® D-Lux is available in 10mm thick sheet – so that if you want a double sided message – or just want extra bright illumination form a single side on a smaller sign, Perspex® D-Lux is the ideal option.

About Perspex® Lux range. Perspex® S-Lux and Perspex® D-Lux are quality edge lighting acrylic sheet solutions specially developed to give optimum performance across a wide range of applications – typically signs, POP/POS, retail displays, outdoor advertising, street furniture.

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## Premier solutions in lighting

### Perspex® from Lucite® Clear Sheet – the original

One of the earliest and extremely successful ways of achieving an edge-lit effect is by using Perspex® Clear, a glass-look acrylic sheet. Your message is engraved into the surface of the sheet and lit from the edge using either fluorescent tubes or LEDs.

Simple but stunning results. Our Clear solution is ideal for small retail displays, POP/POS and interior design. Further enhancements are possible by adding coloured gels or films to the lights.

### World of possibilities – exciting magical effects

Perspex® from Lucite® has a wide variety of grades and products to create magical effects in signs, displays and a variety of other visual applications. Choose from subtly diffused opals, tints with a hint of colour, strong primaries, new cool and subtle Perspex® Frost, and striking vibrant Perspex® Fluorescent and Perspex® Fluorescent Anti-Reflective.

Perspex® opal and coloured sheet has been the premier choice for big brand back-lit signage to leading retail POP and POS displays. Perspex® can diffuse, transmit, reflect and refract light to create outstanding results.

### LED illumination – introducing Perspex® 1TL2

Our latest innovation in the growing area of LED illumination is Perspex® 1TL2. A special opal acrylic sheet which offers high light transmission properties and excellent light diffusion characteristics. Ideal for use with LEDs, especially in slim illuminated signs where a slim profile and high light output is required.



Vink Plast AS  
Design: www.intravision.no



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## LUCITE® DIAKON®

### Light, shape & strength combined

Lucite® Diakon® is a specially produced polymer solution for light management applications with extra performance needs.

#### Ideal for unforgiving environments

Extra impact strength Lucite® Diakon® solutions will stand up to the toughest lighting environments e.g. manufacturing units, factories and production sites. Some grades will even resist chemical spillages.

#### Intricacy and strength

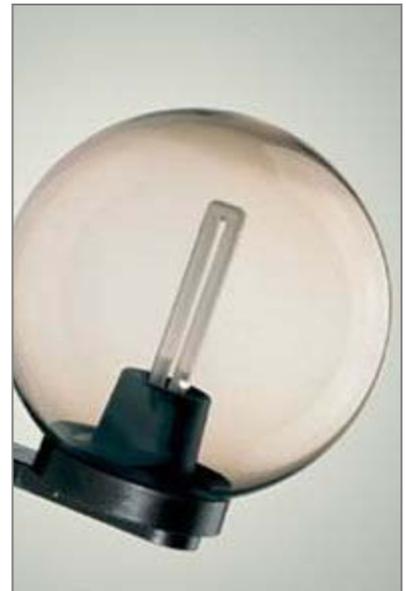
Injection moulded or extruded solutions can offer intricate lighting covers with good mechanical strength. Critical for products requiring complex assembly as well as excellent optical performance.

#### Task lighting to precision lighting

Lucite® Diakon® is used in task lighting applications e.g. compact fluorescent light tubes in domestic kitchens, to precision lighting in environments like operating theatres where optical purity must meet critical standards of illumination and surgical field visibility.

#### Large and small scale applications

Bigger scale requirements? External street lighting or indoor lighting for shopping malls and other commercial venues? Lucite® Diakon® injection moulded lighting globes may be the solution. Smaller scale needs? Lucite® Diakon® is also perfect for injection moulded contemporary lights and lamps.



Visive

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**Tel: +31 (0)181 233 272**  
[info@lucitesolutions.com](mailto:info@lucitesolutions.com)  
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### Special strengths in automotive

In the automotive industry, Lucite® Diakon® grades have been developed to meet stringent automotive component specifications, in particular thermal, optical and chemical performance. Typical applications are multi-coloured automotive rear light lenses.

### Latest innovation - Lucite® Diakon® Frost

Our Lucite® Diakon® Frost solution is proving extremely popular in lighting tubes or profiles, increasingly used in signs in conjunction with LEDs to offer quality lighting alternatives to neon and fluorescent lights.

Characteristics include low energy consumption, reduced maintenance and longer life expectancy. Tubes made from Lucite® Diakon® offer a low cost, high performance alternative and are available in a variety of sizes to suit most sign requirements.



## LUCITE® LIGHTING SOLUTIONS

### Choose the right solution

See full details and an easy-to-use Solutions Finder tool at [lucitesolutions.com](http://lucitesolutions.com). Also see the quick guide below. Alternatively, call us on +44 (0) 1254 874000 or email: [info@lucitesolutions.com](mailto:info@lucitesolutions.com)

#### Sheet solutions

Application	Recommendation
Back lit signs, corporate image, external fascia signs, general lighting, street furniture, advertising hoardings	Perspex® from Lucite® clear, tint, opals, colours and Frost
LED lit slim illuminated signs	Perspex® from Lucite® 1TL2
Internal signs, POP/POS, displays, internal lighting units	Perspex® from Lucite® clear, tints, opals, colours, Frost, Pearlescent and Fluorescent gloss and anti-reflective
Museums, galleries, UV light protection	Perspex® from Lucite® VA/VE
Edge lit bespoke signs, large area signs, architecture wall panels, shelving, furniture	Perspex® Prismex®
Edge lit small signs, < A2, retail POP	Perspex® S-Lux 5mm, 8mm
Large edge lit poster boxes, retail displays	Perspex® S-Lux 8mm, 12mm
Large edge lit Euro posters, outdoor signs	Perspex® S-Lux 12mm
Double sided edge-lit signs, single sided small size extra bright signs	Perspex® D-Lux
Edge lit retail POP/POS, interior design, illuminated art/sculpture, furniture	Engraved Perspex® from Lucite®



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### Polymer solutions

Application	Recommendation
Extruded light fittings	Lucite® Diakon® standard and impact modified extrusion grades
Injection moulded light fittings	Lucite® Diakon® standard and impact modified injection moulded grades
Medical light fittings	Lucite® Diakon® grades formulated to give maximum optical purity
Light tubes	Lucite® Diakon® Frost standard and impact modified grades for good diffusion and maximum light output
Automotive	Lucite® Diakon® grades specifically formulated to meet automotive standards and specifications

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