

SIGNS & SOLUTIONS  
**SOLENEON**  
[www.soleneon.com](http://www.soleneon.com)









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*Soleneon* has been operating in Italy and Europe for over 30 years, manufacturing LED illuminated signs for the design communication sector. The company strives to keep moving forward professionally, offering illuminating signs known for their quality at competitive prices.

# *About us*





*The focus on innovation and problem solving* has enabled us to design and create products before the market needed them, thus making us able to meet clients' requirements when they arose and improve the service we provided. *Our attention to detail and innovation are at the core of our LED illuminated signs.*

# *Mission*









Illuminated signs can be a key part of company or brand communication, so whether you are looking to create new illuminated signs or update old ones, we can provide what you need. We can create signs as part of an internal ***company rebranding***, responding to a customer's need for rapid production and delivery times without losing quality.

Our expertise is not limited to illuminated signs, but also ***covers indoor and outdoor direction signs and signs for shows, exhibitions and the retail industry.***

***The extreme flexibility and variety of services we provide, together with the production of non standardised LED signs*** has helped us to become one of the leading trade suppliers in the industry. Industry professionals outsource work to us because they know we can design and produce the illuminated signs they want to install directly at their client's premises or finish in their own workshops.



# *Clients*

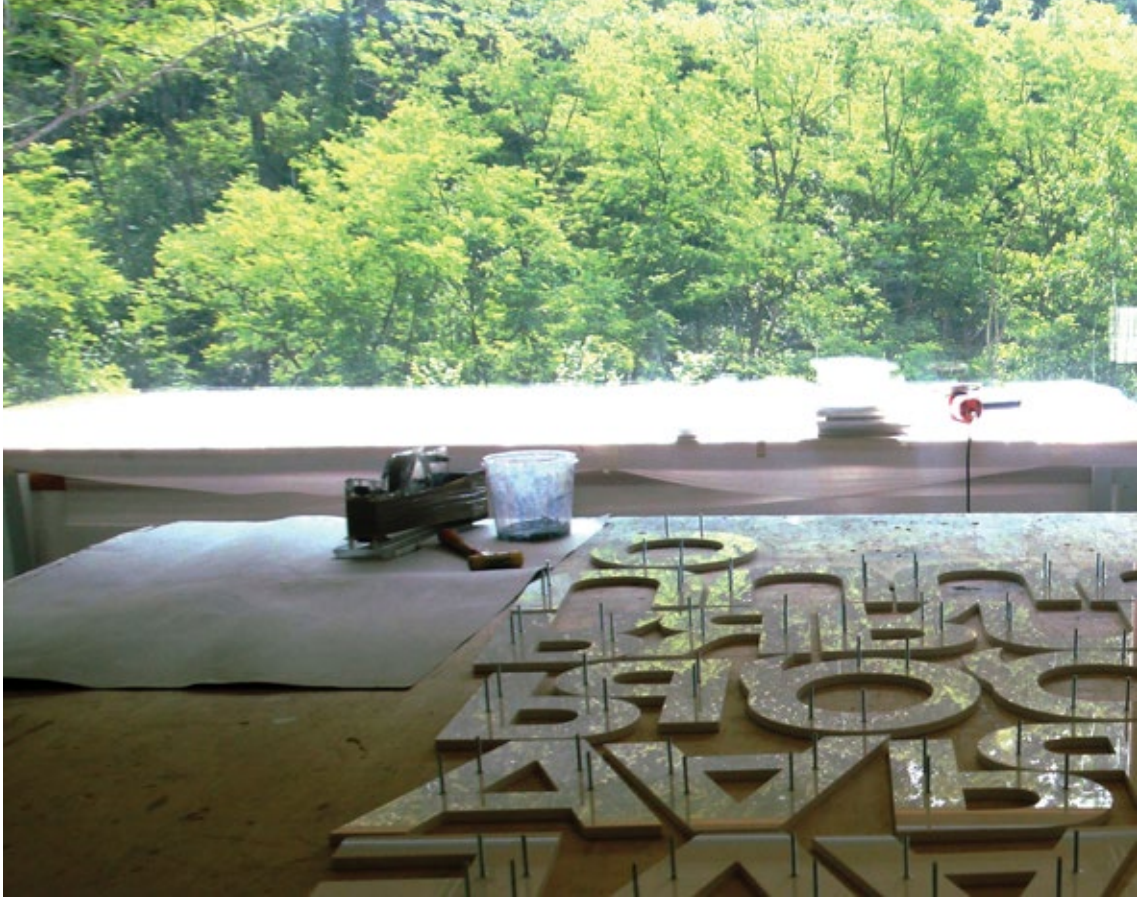




It is our mission to offer our clients innovative products which are functioned, always paying great attention to research and using sustainable material and energy saving components.

# *Products*





All our painting processes are *environmentally friendly*, using paints that are suited to outdoor use.

***Only top quality electrical components and materials are used.***

- MeanWell – Tridonic AC/DC high efficiency power supplies, 5/7 year warranties
- LED IP65 modules with integrated optics: GE – Osram – Tridonic – Daehan 3/5 year warranties
- Plexiglas® - Altuglas® - Perspex® PMMA, at least 5 mm thick
- Forex® - LYX Foam self-extinguishing PVC, 10/13/19 mm thick
- Aluminium composite DIBOND®
- AISI 304 and 316 stainless steel
- Aluminium, brass and copper

LED illuminated signs such as built up letters solid illuminated letters, lightboxes and illuminated signs on glass can be supplied with all the components needed for on-site installation, including the wiring and devices needed to control the level of lighting.

We can also deliver LED signs that need to be completed in a client's own workshop.

We are able, on request, to provide electrical designs for LED signs and structural calculations.

***All of our signs use LEDs.***

## *Built up letters*

We produce patented built up letters using customised manufacturing technologies and top quality materials.

***Our experience in lighting engineering design and creation enables us to produce different models of illuminated built up letters.***

Our careful design and manufacturing processes ensure uniform lighting, energy savings and minimal maintenance.





## *Built up letters with edge and halo lighting*

Built up letters with edge and halo lighting have watertight faces and sides (*Soleneon Service S.r.l. European patent*).

They can be made in various materials.

The base is made of translucent polycarbonate or acrylic.



*Built up letters* with direct and/or halo lighting and metal sides.

The expansion joint between the acrylic face of the built up letters and the metal side is watertight (*Soleneon Service S.r.l. European Patent*).

The combination of the face protruding slightly beyond the side of the letter and watertight joints guarantees that any rainwater runs off immediately, leaving the face of the sign perfectly clean.



***Other example of application:***

built up letters with direct lighting, created with metal sides, acrylic faces and upon digital printing or traslucent adhesives.



*Built up letters* with halo lighting and the face and sides in different materials.

The backlit built up letters with halo lighting and the face and sides in different materials have precise shapes that are only possible because of the special bending technique developed by our company. This technique makes it is possible to create complex lettering in small sizes.

Such built up letters are ideal for the latest 3D graphic combinations.



***Other example of application:*** the face of the letter (S) was made with an aluminium composite and the letter (N) was made with an acrylic composite face (***Soleneon Service S.r.l. European Patent***).



## *Built up letters* with frontal pinpoint lighting using exposed LEDs

These signs are made from different materials. Since the processes are fully computerised, built up letters are completely uniform and perfect replication is possible, even years later. Such LED built up letters with frontal pointing light are ideal for the latest 3D graphic combinations.



### *Flat and built up letters with halo effect*

The flat letter (S) with halo lighting are made of coated plastic or other materials.

The built up letter (N) with halo lighting are made of metal (aluminium, AISI Type 316 stainless steel, brass or copper).

Since the processes are fully computerised, products are completely uniform and perfect replication is possible, even years later.



***Built up letters*** with direct lighting, in acrylic (S) and metal with a frame (N)

The direct light built up letter (S) has an acrylic face and sides.

The direct light built up letter (N) has a metal base, sides and frame (aluminium, AISI Type 316 stainless steel, brass or copper).





## *Solid illuminated letters*

The solid illuminated letters are acrylic, but carefully designed to allow the LEDs to dissipate heat and thus maintain constant lighting levels over time. These signs are produced to facilitate ***installation and reduce maintenance***. Our solutions can also be used for signs with small and medium-sized letters.



### *LED solid acrylic letters*

The LED solid acrylic letters were made by inserting an invisible section of aluminium under the letter put upon acrylic.

The acrylic was made to include the section under the letter and LED while the sides can be polished or satin. This solution is ideal for solid letters within 15 to 35 cm high and with an illuminated depth of up to 2/3 cm.



## Direct light *solid acrylic letters* with metal sides

The direct LED light solid acrylic letters have a section under the letter in metal (aluminium, AISI Type 316 stainless steel, brass or copper), but this is kept to the minimum required height.

The heat from the LEDs in this metal section dissipates, ensuring constant lighting levels over time.

This solution is ideal for solid letters within 17 to 45 cm high. Solid letters have no visible screws.



## *Illuminated built up letters with a solid acrylic face*

Built up letters with a solid acrylic face have direct light, metal sides and watertight joints (***Soleneon Service S.r.l. European Patent***).

The combination of the face protruding slightly beyond the side and the watertight joints guarantees that any rainwater runs off immediately, leaving the acrylic face perfectly clean.

This solution is ideal for solid letters within 20 to 75 cm high.



## *Solid acrylic built up letters with direct and halo lighting*

Solid acrylic built up letters with direct and halo lighting have metal sides and watertight joints (***Soleneon Service S.r.l. European Patent***).

The combination of the face protruding slightly beyond the side and the watertight joints guarantees that any rainwater runs off immediately, leaving the acrylic face perfectly clean.

This solution is ideal for solid built up letters within 20 to 75 cm high.



## *Lightboxes*

When making LED lightboxes, the differing expansion of metals and acrylics is carefully calculated to ensure that no problems arise from linear expansion. ***We have selection of illuminated LED lightboxes, so we can meet numerous different communication business needs.***



## *Lightbox* with solid acrylic push through letters and a diamond effect

Metal is used for this lighted sign box with solid acrylic push through letters and a lateral diamond effect.

The effect on the letter (S) is created using an illuminated shiny face and sides.

The effect on the letter (N) is created by increasing the illuminated face at the push through point on the lightbox.

The face of the lettering is made with a metallic material and/or a non-translucent metal finish adhesive.

The solid acrylic letters are individual pieces that slot into the lighted sign box and are fastened using silicon and/or polyurethane adhesives.



## *Lightbox* with opal acrylic push through letters

Metal (aluminium, AISI Type 316 stainless steel, brass or copper) is used for the lightbox with opal acrylic push through letters.

The effect on the letter (S) is illuminated on the face and sides, with or without a translucent adhesive.

The effect on the letter (N) is only illuminated on the sides.

The face is made with a non-translucent adhesive or metal, but is smaller than the letter to create the edge lighting effect.

Solid acrylic letters are individual pieces that slot into the lightbox and are fastened using silicon and/or polyurethane adhesives.





## *Lightbox* with acrylic push through letters in low relief and with inlay

Metal (aluminium, AISI Type 316 stainless steel, brass or copper) is used for the LED illuminated sign box with acrylic push through letters in low relief and with inlay.

The effect on the letter (S) is illuminated on the face and sides, with or without translucent adhesives.

The effect on the letter (N) is illuminated and produced using an inlay technique.

The solid acrylic letters are individual pieces that slot into the lightbox and are fastened using silicon and/or polyurethane adhesives.



## Shaped slim design *lightbox*

### Shaped slim design lightbox

Conventional lighting techniques require a box that is at least 90 mm thick, but our innovative solutions make it possible to create flatter signs.

Using processed metal for the sides enables the LEDs to dissipate heat along the external perimeter.

The shaped slim design lightbox can be made in any shape. It is energy-efficient, with consumption of less than 50W/m<sup>2</sup>, a third of conventional solutions.



## *Illuminated signs on glass*

*In 2003, our company patented LED illuminated sign on glass*, allowing illuminated signs to be hung on shop windows.

Our LED illuminated signs on glass are testimony to the efficacy of such signs, proof that our designs and manufacturing have been able to meet the sophisticated demands of numerous brands seeking unconventional visual marketing at a point of sale.



*Illuminated signs on glass with a non-translucent background and letters in relief (Soleneon Service S.r.l. European Patent).*

These illuminated signs on glass have a non-translucent background that is fastened on the outside of the window. It is made with matt adhesive or other materials. The (S) is solid acrylic, whilst the (N) has a translucent adhesive that produces an on and off effect.

The container for the LED light source is located inside the shop and has anti-fall safety system.



*Illuminated signs on glass with an illuminated background and letters in relief (Soleneon Service S.r.l. European Patent).*

These illuminated signs on glass have an illuminated background with a translucent adhesive that is attached to the outside of the window.

This means it has both an on and off effect.

The solid acrylic letters come with or without a metal finish adhesive.

The container for the LED light source is located inside the shop and has anti-fall safety system.



Direct light *illuminated signs on glass*  
with individual letters.  
(*Soleneon Service S.r.l. European Patent*).

The direct light illuminated signs on glass with solid acrylic individual letters come with or without translucent adhesives and are fastened on the outside of the window.

The LED light source container for individual letters is located inside the window/shop.



*Illuminated signs on glass with illuminated digital print and flat graphics (Soleneon Service S.r.l. European Patent).*

Illuminated signs on glass with an illuminated background have graphics on the outside on a translucent adhesive or digital print to produce on and off effects. The shaped container for the LED light source is located inside the shop and has anti-fall safety systems.



## *Fixings*

Signs supplied on request can be provided with the fixings needed to install them.

A ready-to-install sign service is also available.





## Camouflaged channel for illuminated letters

The installation of individual illuminated letters is complex and time consuming as the letters have to be fixed in place and the LED wiring done. We offer a PVC camouflage channel that is supplied in the colour requested, with the letters already fixed in place and the LED wiring done to regulatory safety standards. In other words, the sign is ready to install.



## Load-bearing *structures*

For complex installations, we can provide special structures and the related structural calculations.



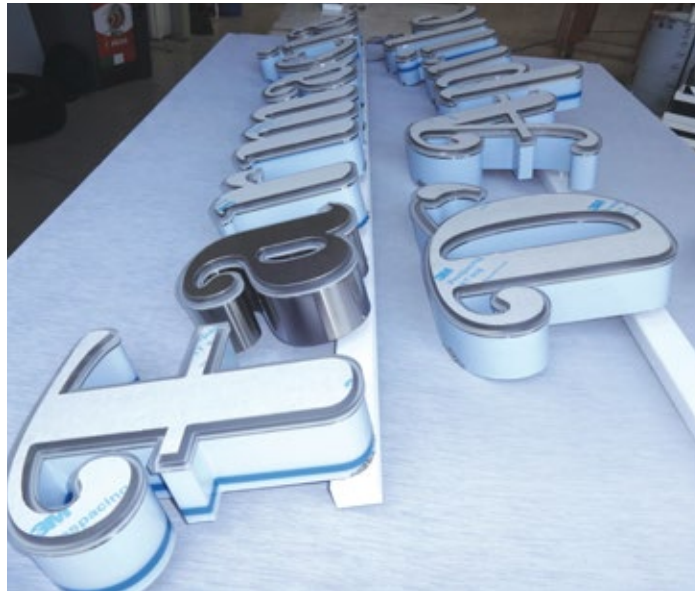
## *Spacers*

We can also supply the spacers, in resin, brass or steel, when built up letters are supplied to be installed on site.



### *Aluminium frames*

Traditional aluminium frames for letters can be produced in customised shapes.



### *Backing plates* for built up letters

Upon request, Soleneon can supply rectangular or shaped backing plates for built up letters.





**Soleneon Service s.r.l**

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