LightGraphix

LD Prismex

Made To Measure LED Light Panels

IP40 F III

LD Prismex has been redesigned, and is now a 24V LED system. This has allowed a smaller LED profile to be designed, and reduces the quantity of LED drivers needed. It is an ideal product for back bar/shelving lighting, light boxes with restricted depth and back lighting to signage/posters.

- Choice of LED outputs depending on the application, including RGB
- Only 24mm depth which includes a frosted panel
- Custom made to size
- White or coloured frosted panels available
- Maximum useable lit area 1460mm x 2980mm
- Multiple panels can be butted up for larger applications
- 1460mm is the maximum distance between the LED strips
- Non-fade Rosco filters can be used to achieve colour temperatures of 2200K
- Available with Switched, 1-10V, DMX or Dali drivers

Design Tip: Our 900lm/m LGX9C board offers a more than adequate amount of light for most details. It also has the smallest LED cut increments of 75mm so we can get closer to the requested dimensions.
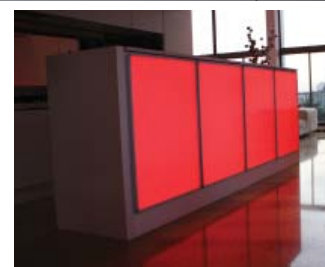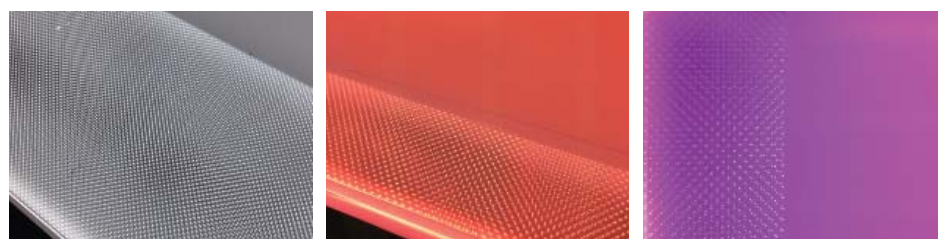
LED options >	LGX9C 900 lm/m**		Power 1700 lm/m**		RGB 435 lm/m**
Description	LightGraphix high output LED board		Power flex tape		RGB tape
Colour temperature*	3000K	5000K	3000K	5000K	-
Delivered lumens / m**	900lm/m**	1000lm/m**	1700lm/m**	1800lm/m**	435lm/m**
Watts / m	12.5W/m		22.7W/m		18W/m
Lumens per watt**	70lm/w**		70lm/w**		24.1lm/w**
Voltage (V)	24V DC		24V DC		24V DC
CRI	85		85		-
LED	LightGraphix board with Osram Duris LEDs		Osram Flex		Osram Flex
LED cut increments (mm)	75mm		150mm		100mm
LED spacing (mm)	25mm		25mm		25mm
Min single length (mm)	75mm		164mm		114mm
Max single length (mm)	3004mm		3004mm		3004mm
LED lifetime	50,000hrs (to 70% lumen output)				
Max ambient temperature	45°C				
Materials	Silver anodised aluminium extrusion, Perspex prismex panel				
IP rating	IP40				

* Power LED options are available in 2700K (LW27) on special order
** Lumen output is from the LEDs only, no data is available for actual lumen output of the prismex panel

Prismex technology

- Primsex panels are made from clear acrylic which has a custom white dot matrix screen printed onto both sides. The size of the dots vary in size depending on how far they are from the light source. The further away they are the larger the dots, and the more light these reflect. When used with a frosted panel this creates an even glow.

LD Prismex

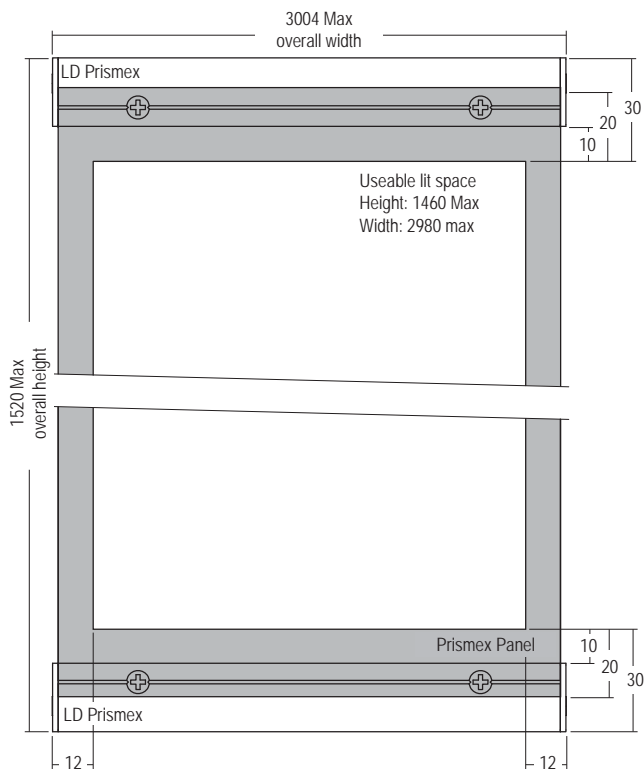Made To Measure LED Light Panels

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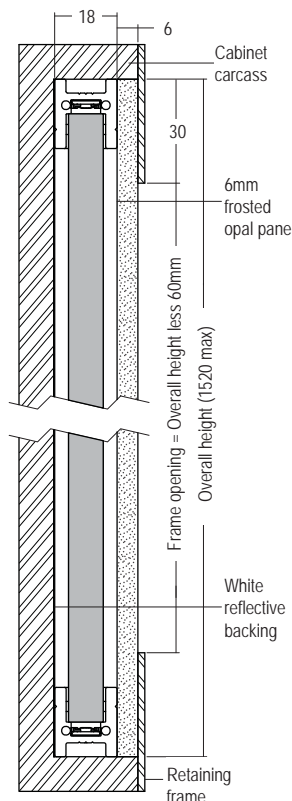
Fixing Details and Dimensions

Prismex panels need to be illuminated from 2 sides to achieve an even panel of light. The diagrams below show a typical installation detail. Both the prismex and the frosted panels need to be secured by a retaining frame which would be part of the joinery detail.

(Dimensions in mm, prismex panel and frosted panel supplied seperately)

Useable lit space
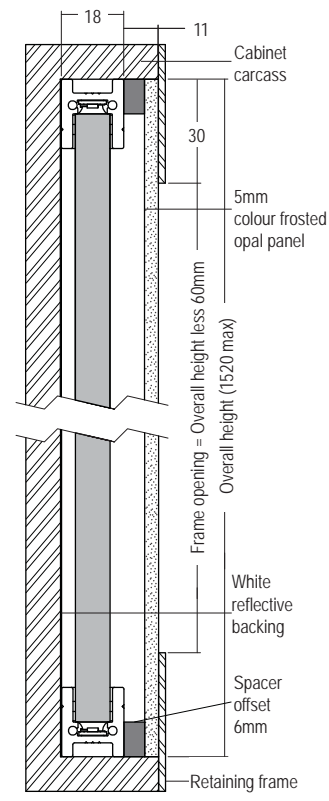Height: 1460 Max
Width: 2980 max

White frosted panel
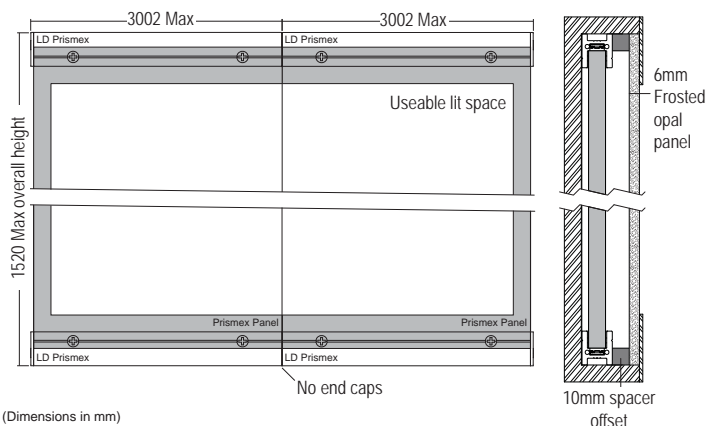- Use with white and RGB LEDs

Colour frosted panel
- Only use with white LEDs
- 6mm spacer is required as colour panel is thinner

Multiple Panels Butted Together

When multiple panels are needed, LD Prismex can be supplied with no end caps to allow a seamless join to the next panel. To reduce any dark spots between panels we recommend a 10mm spacer is used between the prismex and the frosted panel.

(Dimensions in mm)

Order Codes and Options

Product code	LED output	LED colour	Frosted panel	Size
LD Prismex				

Example: LD Prismex / LGX9C / LW30 / White frosted / 1200mm

LED output options	Suffix
LGX9C	/LGX9C
Power	/Power
RGB	/RGB

LED colour options	
Warm white (3000K)	/LW30
Cool white (5000K)	/LW50
Colour corrected using filter (****K add desired colour temperature)	/LWC****

Frosted panel options

White frosted panel (030 opal polar frost)
Colour frosted panel (specify colour eg. chilli red frost)

Size

The size specified needs to include the LED lengths so overall dimensions (please bare in mind the useable lit space)

To be used with 24V constant voltage LED Drivers and Controllers

Please contact us for more information on suitable 24V LED drivers and controllers