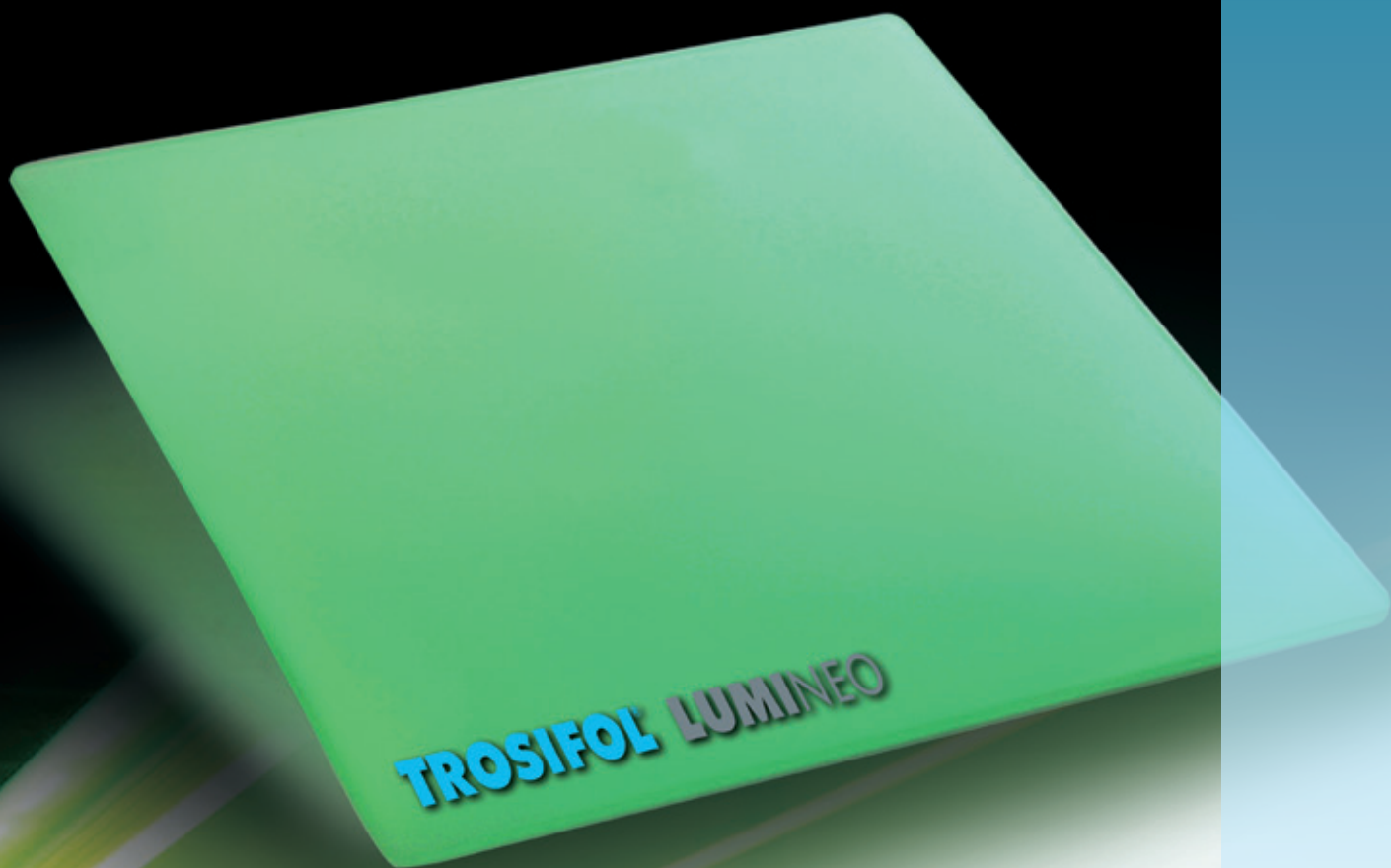
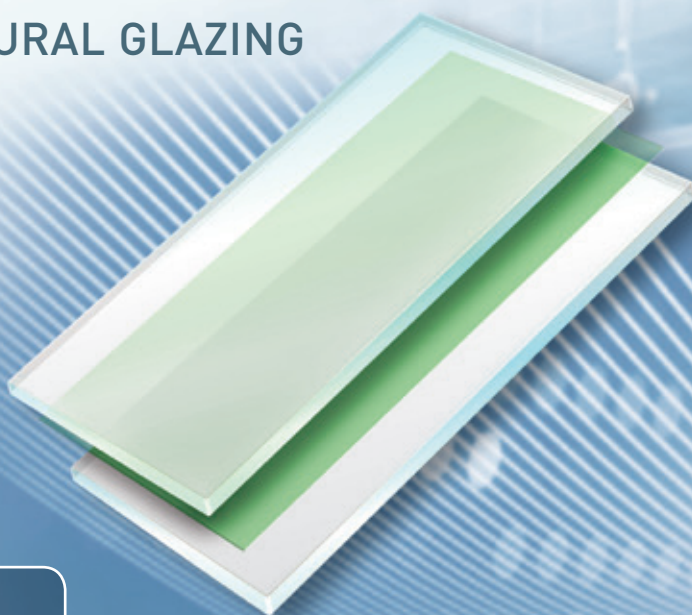


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# LUMINEO

SELF-LUMINOUS PVB FILM FOR  
ARCHITECTURAL GLAZING



PRODUCT INFORMATION

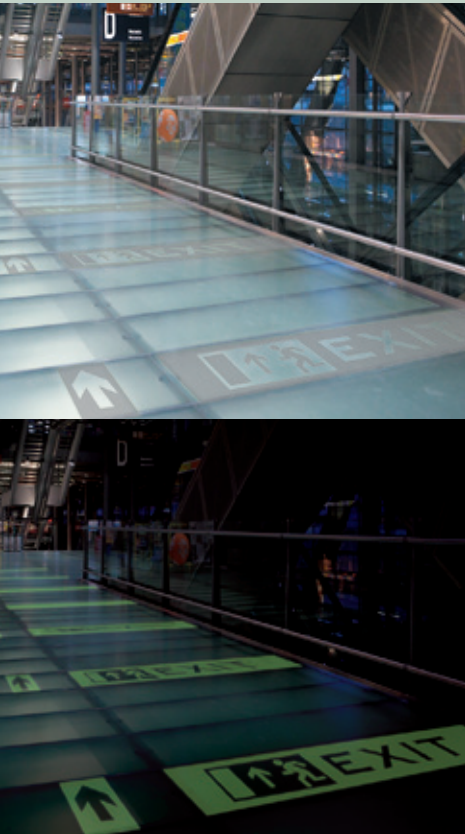
**TROSIFOL<sup>®</sup>**

# SELF-LUMINOUS PVB FILM. YOUR RELIABLE EXTRA LIGHT.

## PRODUCT FEATURES

- Developed to European standards for safety glass
- Combinable with other TROSIFOL® films to modify optical and acoustic properties
- Diminishes the need for extra light sources in public areas for emergency situations, e.g. power failures

It could look like this:



## TECHNICAL DATA FOR LUMINEO YELLOW-GREEN

Properties	Unit	Test method	TROSIFOL® LUMINEO
Thickness	mm	-	0.76
Surface roughness <sup>1</sup>	µm	-	40
Density	g/cm <sup>3</sup>		1.13
Glass adhesion (pummel test)			> 6
Glass adhesion (CSS)	N/mm <sup>2</sup>	CSS	> 17
Light transmittance <sup>2</sup>	%	EN 410	≤ 60
UV transmittance <sup>2</sup>	%	EN 410	< 0.2
Elongation at break	%	ISO 527	> 250
Tensile strength	N/mm <sup>2</sup>	ISO 527	> 23
Luminance after 2 min	mcd/m <sup>2</sup>	DIN 67510-1	> 140
Fade-out time	min.	DIN 67510-1	> 600 min.

All details are typical mean values. When used as a safety marking, it is always important to check the light conditions locally.

<sup>1</sup> Values measured to EN ISO 4287  
<sup>2</sup> LSG 2 x 2 mm

## TROSIFOL® LUMINEO – SELF-LUMINOUS PVB FILM FOR ARCHITECTURAL GLAZING

TROSIFOL®, a leading manufacturer of PVB film for laminated safety glass in architecture, automotive engineering and the photovoltaic industry, is launching LUMINEO, a new, revolutionary self-luminous PVB film. The new film product achieves its luminous effect with the aid of a special formulation (European patent pending).

LUMINEO is inspirational and a source of new ideas. At the same time LUMINEO satisfies the criteria of the German Lists of Construction Products of the DIBt (German Institute of Construction Technology). Safety certificates to EN 356 and EN 12600 can be supplied on request. A test report on the after-glow properties of LUMINEO is also available (BAM, DIN 67510-4, subclassification A, Ref. VIII 1E 2077 of March 2009 for "Safety routing systems with a long after-glow" such as for emergency exits and escape routes).

Of course LUMINEO can also be combined with other TROSIFOL® products, thus opening up new creative opportunities in the design of laminated safety glass. The combination of safety and design with light transmittance values of up to 60 per cent makes LUMINEO ideal for use in interior architecture or public buildings where design and safety are requirements of equal importance. We recommend individual test samples be manufactured and tested, as light conditions can vary.

Assuming the proper lighting conditions, in general, LUMINEO can be used for all internal and external glass applications. Possible applications for LUMINEO may include; facades, roofs, balustrades, balconies. Any questions and our Technical Service will be happy to help.

TROSIFOL® LUMINEO is available in standard widths of 1000, 1600 and 2250 mm, each in a thickness of 0.76 mm. The roll lengths are 20 m and 200 m and are supplied with a PE interleaved film.

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6/2011

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