

THE LEADING LIGHT IN PASSENGER SAFETY

LOW-LEVEL EXIT PATH MARKING

The HPPL, when integrated to the ABRASTOP™/FIBER Floor Covering, will assist passengers in identifying the exit path during an emergency under conditions of darkness and/or smoke.

FEATURES INCLUDE

- In service since 2000
- Meets APTA standards
- Meets Fire, Smoke and Toxicity standards
- Easy to clean
- No electrical power required
- No maintenance needed
- Charged by ambient lighting
- Integrated to the ABRASTOP™/FIBER Floor Covering
- Customized Exit path marking



PHOTOLUMINESCENT MARKING

In the absence of light, the pigmented stripes emit an intense glow, visible for more than 90 minutes, to effectively lead the passengers to the exit. Photoluminescent lines allow safe evacuation in case of emergency.



Never Underestimate Materials Intelligence.



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SPECIFICATIONS

The high-performance photoluminescent marking consists of a thermosetting resin and photoluminescent pigments of high intensity. In the absence of light, these photoluminescent pigments previously recharged by ambient light will immediately begin to issue the light absorbed in the form of an intense yellow-green glow. This glow decreases slowly with time, but will remain visible for more than 90 minutes, thereby facilitating the evacuation of passengers. The marking is embedded into the floor and will remain visible even in the presence of smoke. This photoluminescent system allows the marking of walkways, stairs, doors or other significant items for the evacuation.

GENERAL

Standard Dimensions Strips from 25mm to 40mm (1in to 1.5in), can also be customised.

Colour Yellow – Olive Green

Exit Path According to customer requirements, while respecting the APTA standards.

PHYSICAL PROPERTIES

Excitation Wavelength¹ < 450nm between 320nm and 380nm
Maximum absorption

Emitted Wavelength Emission maximum around 520nm (apple green)

Residual light intensity² (ASTM E-2073) mcd/m²

	Sample #1	Sample #2	Sample #3	Sample #4
After 10 min	37,916	38,080	38,018	37,912
After 90 min	10,391	10,367	10,814	10,531

Under the APTA conditions: Minimum = 7.5 mcd/m² after 90 minutes.

SAFETY

Critical Radiant Flux (ASTM E-648) > 0,65 W/cm²
Specified Minimum: 0,50 W/cm²

Toxic Gas Generation³ (Boeing BSS 7239) (ppm)

	Mode	Specified Maximum	Flaming	Non-Flaming
	CO max	3500	1308	543
	NO ₂	100	< 1	< 1
	SO ₂	100	< 6	< 6
	HCl	500	< 12	< 12
	HF	200	< 12	< 12
	HBr	–	< 3	< 3
	HCN	150	28	10



¹ The APTA defines the minimum light intensity of loading for the high-performance photoluminescent materials based on the type of lighting used: fluorescent, LED or incandescent.

² As modified by the APTA SS-PS-004-99 or APTA RT-S-VIM-022-08. Under the APTA conditions, the material shall be activated with a fluorescent lamp of 40W or less and of a color temperature of 4000-4500° K that provides no more than 1 fc of illumination as measured on the material surface, for a maximum of one hour. The minimum luminance criterion is 7.5 mcd/m², after 90 minutes. ³ Results for Bombardier SMP 800-C also available upon request.

FOR MORE INFORMATION ON OUR PRODUCTS, PLEASE CONTACT

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