

TECHNICAL DATA SHEET

Storelite® Safety Panel is a high performance afterglow security mark, which allows a safe escape in emergency situations. It has an outstanding excitation sensibility under weak lighting conditions and high afterglow intensity. Therefore the **Storelite® Safety Panels** show excellent emergency path finding even in traffic tunnels and low-lighted areas.

The materials used are stain-resistant and easy to clean as well as highly chemically and mechanically resistant. This solid high quality panels are designed for use under demanding environmental conditions.

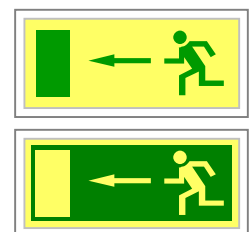
Storelite® Safety Panels are available in the dimensions from 100 x 100 x 2 mm to 1000 x 500 x 2 mm.

Type P: positive pictograph, symbols green (RAL 6029) background phosphorescent

Type N: negative pictograph, symbols phosphorescent background green (RAL 6029)

INTRODUCTION

TYPES



Excitation under low lighting condition

Min	mCd/m ²
2	290
5	190
10	125
20	70
30	50

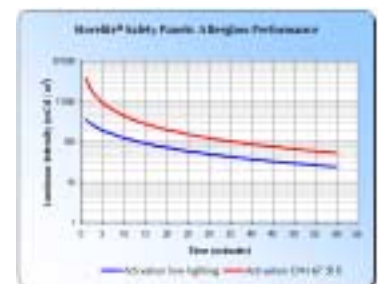
Excitation according to DIN 67 510

Min	mCd/m ²
2	2200
5	910
10	440
20	200
30	125

Lamp: Aura LL-18W-840
Time: 60 minutes
Intensity: 25 lux

Osram Ultra Vitalux 300W
5 minutes
1000 lux

AFTERGLOW PERFORMANCE



The afterglow parameters for the excitation according to DIN 67 510 are given for comparison to the commonly known industry standard. In fact, for the use under realistic conditions, the parameters for the excitation under low lighting conditions are relevant.

EXCITATION CONDITIONS

Substrate: white coated aluminium (AlMg3)

Phosphorescent layer: phosphorescent pigment with special excitation sensibility and outstanding afterglow performance in a resistant, highly transparent acrylic layer.

Protective coating: chemically and stain-resistant transparent coating.

All materials used are PVC-free.

STRUCTURE

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Inorganic Strontiumaluminate, inert, temperature-resistant > 1000° C, free of radioactive substances

PHOSPHORESCENT PIGMENT

Recommended cleaning with water 2 - 3 times per year if applied in a polluting location. Alkaline cleaning agents (pH factor < 10) may be added. High pressure cleaning or with non-metallic brushes. When using cleaning agents it is recommended to rinse with water.

CLEANING

The materials used do not emit any toxic or aggressive gases (specific tests are pending). All materials are PVC-free, the phosphorescent pigments are inert and temperature-resistant up to over 1000° C.

BEHAVIOUR IN CASE OF FIRE

Luminous intensity: if the excitation conditions are kept, the after-glow parameters will be achieved by -5%, +20%.

QUALITY CONTROL

Cross-cut test: cross-cut 8 x 2 mm rectangular and adhesion test with Scotch Masking Tape. Test of each layer: no loss of adhesion.

Impact test: with an iron rod Ø 30 mm, rounded end, 6.2 kg, height of drop 0.5 m, panel placed on hardwood: panel deformed, no flake off of the luminous layer.

Bending test: 30° with a bending radius of 20 mm: the layers do not come off.

Cleaning resistance: Immersion for 24 h in alkaline cleaning agent: no visible change.

High-pressure test: 130 bar / 1 m distance: no flake off or damage of the luminous layer.

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Temperature resistance: -40° C to +80° C permanent stability
+100° up to 1 h: no visible change

For mounting with screws, it is recommended to use plastic washers as well as suitable screws to avoid galvanic bridges.

MOUNTING ADVICE