



REPORT NO: 193/97

DATE: 28th July 1997

RESULTS: One sample of Luminescent panel labelled WOE 1.
The sample consists of a primed Aluminium panel coated with two layers of Lumink visible afterglow surface with a clear lacquer overcoat. Nominal Aluminium thickness was 1.2mm, nominal thickness of Lumink was 150 microns, nominal mass of Aluminium was 3.4 kg/m^2 . The colour was yellow/ neutral. The test panel measured approx. 75mm x 500mm

The measurements were carried out in a dark room at a temperature of 24°C .
The luminance of a circular area of 50mm diameter of the test panel was measured with an LMT L1003 luminance meter using a 3° measuring aperture at a distance of 1.5m. The Excitation source was a Cathodeon 150W Xenon arc lamp positioned so as to provide a mean of 1020 lux over the sampled area, the illuminance over the sampled area did not vary by more than 8% from the mean.

Luminance of sample panel in mcd/m^2

Sample Panel ID.	Luminance after 10min	Luminance after 60min	Estimated Decay time (min)
WOE 1	83.0	12.5	1940

The Estimated Decay time was found according to the method described in DIN 67 510 i.e. the logarithm of the time is plotted against the logarithm of the luminance. This provides a straight line and so an estimate can be made of the time it will take for the luminance to reach 0.3 cd/m^2 .

In this case the estimate is 1940 min i.e about 32 hours.

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DATE: 28th July 1997

CLIENT: Way Out Evacuation Systems Pty Ltd,
P.O.Box 250
Brighton, Vic. 3186
Attn: Mr Neil McInnes

PURCHASE ORDER: Letter received 15/07/97

REFERENCE: Lab.Book No.6, p 100

TEST ON: One sample of Luminescent panel labelled WOE 1.
The sample consists of a primed Aluminium panel coated with two layers of Lumink visible afterglow surface with a clear lacquer overcoat. Nominal Aluminium thickness was 1.2mm, nominal thickness of Lumink was 150 microns, nominal mass of Aluminium was 3.4 kg/m². The colour was yellow/ neutral. The test panel measured approx. 75mm x 500mm.

TESTED FOR: Luminance as a function of time tested according to DIN 67 510 Part 1 Longlasting Afterglow Pigments and Products.

COMMENTS: The sample was first exposed to a mean illuminance of 1020 lux for 5 min using a 150W Xenon arc lamp.

RESULTS: See Page 2 of 2

TOTAL UNCERTAINTY OF MEASUREMENT:

Luminance: $\pm 5.0\%$ or 0.5 mcd/m^2 (whichever is the greater)
Time: $\pm 15\text{s}$
Illuminance: $\pm 5.0\%$ or 1 lux (whichever is the greater)

As estimated at the 95% confidence limit

TESTING OFFICER: SE Jenkins, 28/7/97
Steve Jenkins

APPROVED SIGNATORY: John Xanthos, 28/7/97
John Xanthos

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