



Consultant Advice

From: Nigel Ashby **Date:** 17 May. 11 **File No:** A91216\004\E-105\ca110517a0005 **Pages:** 2
Project: Australis Nathan - Adidas Fitout **No:** E-001[1.0]

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Electrical - Emergency lighting layout for Building Consent Clause F6: Emergency Lighting & Clause F8: Signs

This is prepared in response to the requirements of Clause F6: AS1: Clause 1.7.2 which calls for documentation to be submitted for Building Consent.

a) Justification of the design.

The method of compliance is Clause 1.3.1 of AS1 – provide direct illuminance of :-

- (a) 1 lux in exit ways.
- (b) 1 lux at every change in level in an escape route, and
- (c) 0.2 lux everywhere else

The AGI plot is submitted as evidence that these criteria have been met.

The calculation plane is the floor.

No points have been considered which are within 0.5m of the walls. The calculation is “direct flux only”, therefore reflectances play no part in the calculation.

The uniformity is not calculated since it is not relevant to fulfilling the clause’s minimum requirements.

b) Method of checking the illuminance. The primary method of checking be to compare the as-built installation matches the design drawings.

c) Method of checking the ongoing compliance. Annual checks are called for, to satisfy the Building WoF requirement. At this time measurements shall be performed at the same places, and compared to the original measurements. Variance of more than 10% must be investigated.

d) Duration. Emergency luminaires are specified with battery pack that must pass 120 minutes discharge test upon commissioning which is 1.33 times the compliance requirement of 90 minutes.

We consider that this design therefore satisfies the requirements of Clause F6.

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