

CHOOSING A RELEVANT SAFETY STANDARD

LIGHT TECHNICAL BRIEF

The Electrical Equipment Safety Scheme is a national framework that is used by State Regulators to define the pre-market requirements for the supply of in-scope electrical equipment such as lighting products. Fundamentally, all in-scope electrical equipment must be electrically safe and comply with the relevant electrical safety standards.

Application of Standards

- All lighting equipment offered for sale must comply with relevant electrical safety standards.
- Where a complete lighting product has parts covered by specific standards (e.g. lamp holders, supply cable, drivers), then in addition to the complete lighting product needing to comply with its relevant standard, the parts must comply with their standards.
- When a lighting product could be considered to be within the scope of several different standards the most appropriate standard should be chosen and applied.

The relevant safety standard for testing and certification is determined using the following hierarchy:

Level 1	Level 2 or 3
<ol style="list-style-type: none"> 1. If there is a relevant Australian Standard (AS) or AS/NZS for a product, then that standard in conjunction with AS/NZS 3820 applies. 2. If there is no relevant AS or AS/NZS for a product, but a relevant IEC standard exists, then that IEC standard in conjunction with AS/NZS 3820 applies. Note: testing to include 240Va.c. 3. If and only if an appropriate AS, AS/NZS or IEC standard does not exist, then AS/NZS 3820 can be used to demonstrate electrical safety. 	<ol style="list-style-type: none"> 1. The relevant definition and standard (class specification) for a product is defined as follows: <ol style="list-style-type: none"> a. AS/NZS 4417.2; or b. NSW Government Gazette Notice relevant to <i>Electricity (Consumer Safety) Act 2004</i>; or c. An alternative standard accepted by a regulatory authority and providing the same or higher level of electrical safety as the Australian Standard.¹

¹ Refer ERAC Equipment Safety Rules, Section 8.3.

AS/NZS 3820:2009

This standard outlines the general requirements to demonstrate electrical safety under Australian conditions for electrical equipment. The outcomes-oriented criteria include requirements for markings and protections against hazards including arcing, temperature and radiation. The standard's preface highlights that the intention of AS/NZS 3820 is not to be used in isolation where a relevant product standard exists.

Note: Certificates of Suitability are not issued to AS/NZS 3820. Suppliers should be wary of any certificates that claim compliance with AS/NZS 3820.