

Australian/New Zealand Standard™

Recessed luminaire barriers



AS/NZS 5110:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-041, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 5 October 2011 and on behalf of the Council of Standards New Zealand on 20 October 2011.
This Standard was published on 4 November 2011.

The following are represented on Committee EL-041:

Australasian Fire and Emergency Service Authorities Council
Australian Industry Group
Certification Interests (New Zealand)
Consumers Federation of Australia
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Energy Efficiency and Conservation Authority of New Zealand
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First published as AS/NZS 5110:2011.
Reissued incorporating Amendment No.1 (February 2013)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment.

This Standard incorporates Amendment No. 1 (February 2013). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide requirements to assess the safety of recessed luminaire barriers. Barriers may be an additional means to improve the following:

- (a) The safety of buildings and installations by separation of possibly flammable elements, such as timber joists or ceilings, insulation (bulk, formed or loose fill) debris and the like from recessed luminaires.
- (b) The safety of buildings and installations by separating materials, such as insulation (bulk, formed or loose fill), debris and the like, from the recessed luminaire, and to prevent such materials from impacting on the thermal characteristics of recessed luminaires.
- (c) The thermal performance of recessed luminaires.

This Standard provides classifications, construction and marking requirements, and test procedures for recessed luminaire barriers to achieve uniform compliance criteria for any barrier that may be called up by other Standards, codes, commercial contracts, building specifications, regulatory requirements or the like.

Barriers compliant with this Standard may be suitable barriers to be referenced by other Standards (such as AS/NZS 3000, *Electrical installations (known as the Australian/New Zealand Wiring Rules)*, or AS 3999, *Thermal insulation in dwellings—Bulk insulation—Installation requirements*, or NZS 4246 *Energy efficiency—Installing insulation in residential buildings*, or any specific commercial contract on installation of recessed luminaires, subject to any restrictions or conditions of use, installation or other requirements stated in those Standards or contracts.

If the barrier has electrical components (e.g. a thermal cut out) the tests in this Standard may be used as part of the requirements to show compliance, if appropriate, with AS/NZS 3820, *Essential safety requirements for electrical equipment*.

A1

‘Text deleted’

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE**1.1.1 General**

This Standard specifies the safety requirements for barriers for recessed luminaires to provide adequate separation from combustible building elements, insulation, and/or debris to reduce the fire risk to any surrounding material and to ensure no damage to the recessed luminaire.

Barriers can be collars, covers or complete enclosures intended to ensure combustible materials do not come in contact with hot surfaces.

This Standard specifies requirements for barriers in relation to classification, construction, testing, marking and manufacturer's instructions.

This Standard applies to any barrier intended for application on an existing or new luminaire (see Clause 1.1.3).

The recessed luminaire barrier's effect on building properties such as acoustic characteristics, movement of moisture and thermal R-rating is excluded from the scope of this Standard.

1.1.2 In Australia only**A**

This Standard applies to permanent or removable barriers that are incorporated into luminaire fittings.

NOTE: For such fittings, AS/NZS 60598.2.2 provides requirements for the luminaire.

Any luminaire incorporating a permanent or removable recessed luminaire barrier and not marked 'Do Not Cover', apart from meeting the requirements of this Standard, needs to meet the appropriate tests of AS/NZS 60598.2.2.

Recessed luminaires marked as 'Do Not Cover' are excluded from this Standard as they do not include a permanent or removable recessed luminaire barrier.

NOTES:

- 1 'Do Not Cover' luminaires are marked with the IEC symbol shown in Figure 1.
- 2 This does not preclude a luminaire being tested and classified as a 'single combination' barrier.