

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Amendment No. 1**  
to  
**AS/NZS 5110:2011**  
**Recessed luminaire barriers**

**REVISED TEXT**

The 2011 edition of AS/NZS 5110 is amended as follows; the amendments should be inserted in the appropriate places.

*SUMMARY:* This Amendment applies to the Preface, Clauses 1.3.2, 1.3.15, 2.1, 2.2.2, 2.3, 2.3.3, 2.3.4 (New), 2.4, 2.8 (New), 2.9 (New), 3.2, 3.3.4 (New), 4.3, 4.6 (New), 4.7 (New), 5.4.1, 5.4.2, 5.5.1, 5.5.2, 5.5.3, 5.5.4, 5.5.5, 5.6.1.1, 5.6.2, 5.7 and 5.7.3, Appendices B and C, Table 2.1, and Figure 3 and Figure 4 (New).

Published on 25 February 2013.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 7 December 2012.

**Preface**

*Delete* second last paragraph.

**Clause 1.3.2**

*Delete* ‘(For future use)’ and *replace* with ‘**Not used**’.

**Clause 1.3.15**

*Delete* existing Note 2 and *replace* with the following:

- 2 When required, this will assist with compliance with requirements of AS/NZS 3000, AS 3999, NZS 4246 or other requirements such as the Building Code of Australia (BCA) and the New Zealand Building Code.

**Clause 2.1**

- 1 *Delete* existing paragraphs two and three, including the Note.
- 2 In Item (a), *delete* text ‘(see above)’ and *replace* with ‘(see Clause 2.8)’.
- 3 In Item (b), *delete* text ‘they are designed for’.
- 4 In Item (e), *delete* text ‘and’.
- 5 In Item (f), *delete* full stop ‘.’ and *replace* with ‘; and’.
- 6 *Add* new Item (g) as follows:  
(g) protrusion above insulation.
- 7 *Delete* existing last paragraph and including the Note.

**Clause 2.2.2**

In the first line, *delete* ‘at’ and *replace* with ‘with’.

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### Clause 2.3

- 1 In the Clause heading, *delete* ‘(Australia only)’ and the symbol ‘A’.
  - 2 In Clause 2.3.1, *delete* ‘(Australia only)’ from the heading.
  - 3 In Clause 2.3.2, *delete* ‘(Australia only)’ from the heading.
  - 4 In Clause 2.3.3, *delete* ‘(Australia only)’ from the heading.
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### Clause 2.3.3

In the first line, *delete* ‘high ingress protection barrier’ and *replace* with “‘high ingress protection’”.

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### Clause 2.3.4 (New)

*Add* new Clause 2.3.4 as follows:

#### 2.3.4 Low ingress protruding protection

Barriers classified as ‘low ingress protruding protection’ shall meet the requirement for ‘low ingress protection’ as per Clause 2.3.1.

In addition, the barrier top surface shall meet the following:

- (a) Protrude at least 75 mm above the rated depth of insulation.
  - (b) Have an open area of at least 80% of the downlight penetration area.
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### Clause 2.4

*Delete* entire clause, including the title and ‘NZ’ symbol, and *replace* with ‘Not used’.

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### Table 2.1

*Delete* entire Table 2.1.

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### Clause 2.8 (New)

*Add* new Clause 2.8 as follows:

## 2.8 LUMINAIRE SUITABILITY CLASSIFICATION

### 2.8.1 Single combination

Barriers classified as ‘single combination’ shall be suitable to be used with the specific recessed luminaire model nominated by the barrier manufacturer, and tested in accordance with this Standard for that luminaire, up to the maximum rated wattage according to the luminaire model number.

### 2.8.2 Combination

Barriers classified as ‘combination’ shall be suitable to be used with the luminaire model numbers nominated by the barrier manufacturer, and tested in accordance with this Standard for the range of luminaire models listed, up to the maximum rated wattage of the luminaires.

## 2.8.3 Generic

### 2.8.3.1 General

Barriers classified as 'generic' shall be suitable to be used with the size(s) and type(s) of luminaire and maximum wattage of lamp as specified by the barrier manufacturer in accordance with either Clause 2.8.3.2 or 2.8.3.3.

**2.8.3.2 Luminaire size—wattage:** Ø125 mm—105 W max, Ø125 mm or Ø90 mm—50 W max.

Nominal Ø125 mm recessed luminaire (downlight) with incandescent and tungsten halogen lamps, up to maximum—

- (a) 105 W, maximum R80;
- (b) 105 W, GLS; and
- (c) nominal Ø125 mm or Ø90 mm downlights up to maximum:
  - (i) 50 W MR16 maximum quartz halogen (dichroic).
  - (ii) 20 W LED.
  - (iii) 25 W CFL lamps.

Item (a) and (b) do not form part of this Standard until 5 years after publication of Amendment No. 1 (2013).

NOTE: This clause will be reviewed within three years.

**2.8.3.3 Luminaire size—wattage:** Ø90 mm—50 W max.

Nominal Ø90 mm recessed luminaire (downlight) up to maximum:

- (a) 50 W MR16 maximum quartz halogen (dichroic).
- (b) 20 W LED.
- (c) 25 W CFL lamps.

For use with LED and CFL lamps, generic barriers shall be 'low ingress protruding protection' classification.

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## Clause 2.9 (New)

Add new Clause 2.9 as follows:

## 2.9 PROTRUSION CLASSIFICATION

### 2.9.1 Protruding

Barriers classified as 'protruding' shall have the top surface area of the barrier protruding at least 75 mm above the barrier's rated depth of insulation.

### 2.9.2 Semi-protruding

Barriers classified as 'semi-protruding' shall have the top surface area of the barrier protruding between the rated depth of insulation (marked on the barrier) and up to 75 mm above the barrier's rated depth of insulation.

### 2.9.3 Non-protruding

Barriers classified as 'non-protruding' have no part of the barrier protruding above the barrier's rated depth of insulation.

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## Clause 3.2

- 1 In Item (c), *replace* first sentence with the following:  
*Protruding and semi-protruding barriers:* All ‘protruding’ or ‘semi-protruding’ barriers shall have a line on the barrier to indicate the depth of insulation that is allowed by its classification.
- 2 In Item (k), *delete* existing text, including the Note and ‘**A**’ symbol and *replace* with ‘**Not used**’.
- 3 In Item (l), *delete* existing text, including the Note and ‘**NZ**’ symbol and *replace* with ‘**Not used**’.
- 4 In Item (o), *delete* existing text, including the ‘**NZ**’ symbol, and *replace* with the following:  
If classified as ‘low ingress protruding protection’, it shall be marked ‘LOW INGRESS PROTRUDING PROTECTION’. If not classified as ‘low ingress protruding protection’, it shall be marked ‘NOT SUITABLE FOR USE WITH LUMINAIRES THAT USE LED OR CFL LIGHT SOURCES’.
- 5 *Add* new Item (p) as follows:
  - (p) If classified as ‘generic’, the barrier shall be marked with ‘(i)’, ‘(ii)’ or (iii), as appropriate:
    - (i) ‘Generic barrier, Ø125 mm or Ø90 mm—50 W max.’  
This item forms part of the Standard on publication of Amendment No. 1 and is deleted 5 years after publication.
    - (ii) ‘Generic barrier, Ø125 mm—105 W max. Ø90 mm—50 W max.’  
This item forms part of the Standard 5 years after the publication of Amendment No. 1.
    - (iii) ‘Generic barrier, Ø90 mm—50 W max.’

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## Clause 3.3.4 (New)

*Add* new Clause 3.3.4 as follows:

### 3.3.4 Generic barriers

Generic barriers shall be supplied with information in accordance with its classification, as follows:

- (a) For generic barriers classified as suitable for luminaires of diameter, type and wattage in accordance with Clause 2.8.3.2, the following information shall be supplied:
    - (i) This generic barrier is suitable for use with Nominal Ø125 mm recessed luminaire (downlight) with—
      - (A) 105 W, maximum R80; incandescent and tungsten halogen lamps; or
      - (B) 105 W, GLS; incandescent and tungsten halogen lamps.
- Item (i) does not form part of the Standard until 5 years after publication of Amendment No. 1.

NOTE: This requirement will be reviewed within three years.