

Australian/New Zealand Standard™

**Plumbing and drainage**

**Part 3: Stormwater drainage**



### **AS/NZS 3500.3:2015**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-014, National Plumbing And Drainage Code. It was approved on behalf of the Council of Standards Australia on 17 October 2014 and on behalf of the Council of Standards New Zealand on 31 October 2014. This Standard was published on 2 March 2015.

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The following are represented on Committee WS-014:

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Australian Industry Group  
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Institute of Plumbing Australia  
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# Australian/New Zealand Standard™

## Plumbing and drainage

### Part 3: Stormwater drainage

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-014, Plumbing and Drainage, to supersede AS/NZS 3500.3:2003.

The objective of this Standard is to provide solutions to comply with—

- (a) the National Construction Code; and
  - (b) the Building Code of New Zealand,
- for stormwater drainage.

This Standard is part of a series of Standards for plumbing and drainage, as follows:

AS/NZS

3500	Plumbing and drainage
3500.0	Part 0: Glossary of terms
3500.1	Part 1: Water services
3500.2	Part 2: Sanitary plumbing and drainage
3500.3	Part 3: Stormwater drainage (this Standard)
3500.4	Part 4: Heated water services
3500.5	Part 5: Housing installations

The objective of this revision is to ensure compliance with the ABCB protocol for referenced documents.

This Standard does not cover the criteria for soakers and siphonic systems. Sufficient data was not available in these areas at the time of publication. These areas will be included in a future edition of this Standard, subject to additional research and investigation being carried out.

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.

Statements expressed in mandatory terms in notes to figures and tables are deemed to be requirements of this Standard.

Notes used in this Standard are of an advisory nature only and are used to give explanation or guidance to the user on recommended considerations or technical procedures, or to provide an informative cross-reference to other documents or publications. Notes to clauses in this Standard do not form a mandatory part for compliance with this Standard.

*This document includes commentary on some of the clauses of the Standard. The commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a box. The commentary is for information and guidance and does not form part of the Standard.*

Some materials and products used in a stormwater drainage system are provided with instructions for installation and use. Although not a requirement of this Standard or acceptable as an alternative to the requirements of this Standard, compliance with these instructions generally ensures that—

- (i) the material or product is fit for the application;
- (ii) the performance of the system is not degraded;
- (iii) the durability of the material or product is not impaired; and
- (iv) the manufacturer’s warranty remains valid.

**PROVISION FOR REVISION**

This Standard necessarily deals with existing conditions, but is not intended to discourage innovation or to exclude materials, equipment and methods, which may be developed in future. Revisions will be made from time to time in view of such developments and amendments to this edition will be made only when absolutely necessary.

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**STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND****Australian/New Zealand Standard  
Plumbing and drainage****Part 3: Stormwater drainage****SECTION 1 SCOPE AND GENERAL****1.1 SCOPE**

This Standard sets out requirements for materials, design, installation and testing of roof drainage systems, surface drainage systems and subsoil drainage systems to a point of connection.

**1.2 APPLICATION**

This Standard may be used as a means of demonstrating compliance with the requirements of the National Construction Code (NCC).

**1.3 NORMATIVE REFERENCES**

The normative documents referenced in this Standard are listed in Appendix A.

NOTE: Documents that are referenced for informative purposes are listed in the Bibliography.

**1.4 DEFINITIONS**

For the purpose of this Standard, the definitions in AS/NZS 3500.0 and those below apply.

**1.4.1 Average recurrence interval (ARI)**

The average or expected interval between events of a given rainfall intensity being exceeded.

NOTE: The ARI is an average value based on statistical analysis. The actual time between exceedances will vary.

**1.4.2 Box gutter**

Graded channel, generally of rectangular shape, for the conveyance of rainwater, located within the building, which includes a gutter adjacent to a wall or parapet.

NOTE: Figures I5 and I7, Appendix I.

**1.4.3 External stormwater drainage network**

A system that collects and conveys stormwater from individual properties.

NOTE: The network includes easement or inter-allotment drains, and street and trunk drainage systems.

**1.4.4 Inert catchment**

A rainwater collection area whose dominant material has little or no effect on the chemical composition of rainwater draining from it.

NOTE: Dominant materials include acrylic, fibreglass, aluminium/zinc and aluminium/zinc/magnesium alloy-coated steel, glass, glazed tiles, unplasticized polyvinyl chloride and prepainted metal.