

Australian/New Zealand Standard™

**Plumbing and drainage**

**Part 3: Stormwater drainage**



### **AS/NZS 3500.3:2018**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-014, Plumbing and Drainage. It was approved on behalf of the Council of Standards Australia on 8 June 2018 and by the New Zealand Standards Approval Board on 2 May 2018.

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The following are represented on Committee WS-014:

Association of Hydraulic Services Consultants Australia  
Australian Building Codes Board  
Australian Industry Group  
Australian Stainless Steel Development Association  
International Copper Association Australia  
Master Plumbers 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 3500.3:2015.

The objective of this Standard is to provide stormwater drainage solutions for compliance with—

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

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

The objective of this revision is to—

- (i) update the design rainfall data to the latest Bureau of Meteorology information;
- (ii) include provisions for siphonic systems;
- (iii) provide information on balcony and terrace drainage.

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, conformance to these instructions generally ensures that—

- (A) the material or product is fit for the application;
- (B) the performance of the system is not degraded;
- (C) the durability of the material or product is not impaired; and
- (D) the manufacturer's warranty remains valid.

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.*

**PROVISION FOR REVISION**

This Standard necessarily deals with existing conditions, but is not intended to discourage innovation or to exclude materials, equipment and methods that 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****1.2.1 Australia**

This Standard shall be read in conjunction with the relevant mandatory requirements for heated water services under the National Construction Code (NCC), Volume Three, Plumbing Code of Australia (PCA) in Australia.

Where alternative Australian or New Zealand Standards are referenced (e.g. AS 1345), the Australian Standard shall be used for Australia only.

**1.2.2 New Zealand**

This Standard shall be read in conjunction with the New Zealand Building Code in New Zealand. This Standard may be used for compliance with the New Zealand Building Code, Paragraph G12, Water Supplies.

Where alternative New Zealand Standards are referenced (e.g. NZS 5807) the New Zealand Standard shall be used for New Zealand only.

**1.3 NORMATIVE REFERENCES**

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

NOTE: Documents 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 Annual exceedance probability (AEP)**

The probability that a given rainfall quantity accumulated over a given duration will be exceeded in any one year, expressed as a percentage, which may be an intensity (mm/h) or a depth of rainfall (mm).

NOTE: The AEP is based on statistical analysis of rainfall records, and is applied over a 5 min duration in this Standard.

**1.4.2 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.