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.

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The following are represented on Committee WS-014:

Association of Hydraulic Services Consultants Australia  Master Plumbers Australia
Australian Building Codes Board  National Fire Industry Association
Australian Industry Group  Plastics Industry Pipe Association of Australia
Building Officials Institute of New Zealand  Plastics New Zealand
Gas Appliance Manufacturers Association of Australia  Plumbing Products Industry Group
Institute of Plumbing Australia  Water New Zealand
International Copper Association of Australia

Additional Interests:

Australian Steel Institute  Housing Industry Association
Australian Water Association  Insurance Council of Australia
BlueScope Steel  Master Plumbers and Mechanical Services Association of Australia
Department of Commerce WA
Department of Justice (Tasmania)  Victorian Building Authority

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We also welcome suggestions for improvement in our standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the title page.

This standard was issued in draft form for comment as DR AS/NZS 3500.3.
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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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.

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.

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.

1.4.3 External stormwater drainage network
A system that collects and conveys stormwater from individual properties.

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.
AS/NZS 3500.3:2015 Plumbing and drainage - Part 3: Stormwater drainage

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