This is a free page sample. Access the full version online.

AS/NZS 3500.3:2021

STANDARDS NEW ZEALAND
TE MANA TAUTIKANGA O AOTEAROA

STANDARDS Australia

Australian/New Zealand Standard™

Plumbing and drainage

Part 3: Stormwater drainage

Share your feedback
about this standard.
Scan the QR code on your
phone or click/ enter the
link to take the survey
feedback.standards.org.au/3500.3:2021

This is a free page sample. Access the full version online.

AS/NZS 3500.3:2021

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 14 May 2021 and by the New Zealand Standards Approval Board on 7 April 2021.

This Standard was published on 28 May 2021.

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
Backflow Prevention Association of Australia
Engineers Australia
Hydraulic Consultants Association Australasia
International Copper Association Australia
Master Plumbers Australia and New Zealand
Master Plumbers, Gasfitters and Drainlayers New Zealand
Ministry of Business, Innovation and Employment (NZ)
Plastics Industry Pipe Association of Australia
Plastics New Zealand
Plumbers, Gasfitters and Drainlayers Board (NZ)
Plumbing Distributors Association of New Zealand
Plumbing Products Industry Group
The Institute of Plumbing Australia
Water New Zealand
Water Services Association of Australia

This Standard was issued in draft form for comment as DR AS/NZS 3500.3:2020.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76113 348 0

This is a free page sample. Access the full version online.

Australian/New Zealand Standard™

Plumbing and drainage

Part 3: Stormwater drainage

Originated as part of AS CS 3—1931.
Revised and redesignated as AS 2179—1978 and AS 2180—1978.
AS 2180—1978 and part of AS 2179—1978 revised and designated AS 2180—1986.
AS 3500.3 first published 1990.
Third edition 2018.
Fourth edition 2021.

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2021

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

This is a free page sample. Access the full version online.

Preface

This document was prepared by the joint Standards Australia/Standards New Zealand Committee WS-014, Plumbing and Drainage, to supersede AS/NZS 3500.3:2018.

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

(a) the National Construction Code (NCC); and

(b) the New Zealand Building Code (NZBC), Clause E1 Surface Water.

A list of all parts in the AS/NZS 3500 series for plumbing and drainage can be found in the Standards Australia and Standards New Zealand online catalogues.

The major changes in this revision are as follows:

(i) Definitions have been relocated to AS/NZS 3500.0 for consistency across the series.

(ii) Design rainfall intensities are now expressed in terms of the Annual Exceedance Probability (AEP) values to reflect the practice of the Australian Bureau of Meteorology (BOM) and the performance requirements of NZBC Clause E1 Surface Water. There has been no change in the requirements or the calculations, and the original ARI values are shown for comparison.

(iii) The 5 min duration rainfall intensities for representative places in Australia given in Table D.1 have been updated to show the latest values from the BOM.

(iv) The New Zealand rainfall maps have been replaced by Table E.1 showing 10 % AEP (10 years ARI) and 2 % AEP (50 years ARI) rainfall intensities for selected locations.

(v) The range of materials that can be used for wet wells has been expanded to encompass prefabricated wells.

(vi) Changes have been made to the requirements for the marking of pipes in commercial buildings to assist in the better identification of pipework and avoiding cross connections.

(vii) The design rainfall intensities for balcony and terrace drainage systems in New Zealand have been included.

The terms “normative” and “informative” are used in documents to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a document, whereas an “informative” appendix is only for information and guidance.

Notes or footnotes to tables or figures that are expressed in mandatory terms are deemed to be requirements of this document.

Notes to clauses in this document are informative only and do not include requirements.

© Standards Australia Limited/Standards New Zealand 2021

This is a free page sample. Access the full version online.

Contents

Preface ii

Section 1 Scope and general 1
1.1 Scope 1
1.2 Application 1
1.2.1 Australia 1
1.2.2 New Zealand 1
1.3 Normative references 1
1.4 Terms and definitions 3
1.5 Abbreviations 4
1.5.1 General 4
1.5.2 Plastics abbreviations 4
1.6 Notation 5
1.6.1 Quantity symbols 5
1.6.2 Flow chart symbols 6
1.6.3 Gradients 7
1.7 Identification of piping 7

Section 2 Materials and products 8
2.1 Scope of section 8
2.2 Selection and use 8
2.3 Roof drainage system 8
2.3.1 Roof drainage system components 8
2.3.2 Downpipes 8
2.3.3 Accessories and fasteners 9
2.4 Stormwater drains (non-pressure) 9
2.5 Rising mains (pressure) 10
2.6 Subsoil drains 10
2.7 Joints 10
2.7.1 Resin adhesives 10
2.7.2 Types 11
2.8 Valves 11
2.8.1 Gate and globe 11
2.8.2 Non-return 12
2.8.3 Sluice 12
2.8.4 Wedge gate 12
2.9 Concrete and mortar 12
2.9.1 Concrete 12
2.9.2 Cement mortar 12
2.9.3 Chemical admixtures 12
2.9.4 Water for concrete and mortar 12
2.9.5 Steel reinforcement 12
2.10 Embedment material 12
2.10.1 Site stormwater drains 12
2.10.2 Subsoil drains 12
2.11 Trench fill 13
2.12 Miscellaneous 13
2.12.1 Clay building bricks 13
2.12.2 Concrete masonry units 13
2.12.3 Cover and sump grates 13
2.12.4 External protective coating 13
2.12.5 Fibreglass-reinforced plastic tanks 13
2.12.6 Geotextiles 13
2.12.7 Polyethylene sleeving 13
2.12.8 Precast or prefabricated pits and arresters 13
2.12.9 Timber 14

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation