

AS/NZS 3500.2:2021



Australian/New Zealand Standard™

# Plumbing and drainage

Part 2: Sanitary plumbing and drainage



AS/NZS 3500.2:2021

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- 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
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- Plastics Industry Pipe Association of Australia
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- Plumbers, Gasfitters and Drainlayers Board (NZ)
- Plumbing Distributors Association of New Zealand
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## Part 2: Sanitary plumbing and 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 3500.2:2018.

The objective of this document is to provide installers with deemed to satisfy solutions for compliance with —

- (a) the National Construction Code (NCC) Volume Three, Plumbing Code of Australia (PCA); and
- (b) the New Zealand Building Code (NZBC), Clause G13 Foul 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) Conformance to individual product standards has been removed. All products used in plumbing and drainage systems in Australia need to comply with the PCA and, in New Zealand, the NZBC, see [Appendix A](#) for further information. Removal of specific product standard conformance requirements avoids inconsistencies and contradictions between this document and the PCA and NZBC.
- (ii) Definitions have been relocated to AS/NZS 3500.0 for consistency across the series.
- (iii) The range of materials that can be used for wet wells has been expanded to encompass prefabricated wells.
- (iv) Changes to the requirements for the marking of pipes in commercial buildings to assist in the better identification of pipework and avoid cross connections.
- (v) Changes to the connection requirements for drains at grade.
- (vi) The requirement for a commercial dishwashing machine drainage just to connect to a disconnector gully with a 10 m discharge pipe has been removed. This allows the more effective arrangement of commercial kitchens.
- (vii) An appendix has been added providing guidance on the requirements of AS 2870 for flexible connections to be installed in plastics pipe drainage systems. It covers flexible connections, lagging and water ingress under the slab to accommodate a range of differential soil movement for Soil Classes M, M-D, H1, H1-D, H2, H2-D, E and E-D.
- (viii) Changes to the number of pressure attenuators required to allow more flexible installation options.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, 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.

*This document includes commentary on some of the clauses. 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 document.*

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# Australian/New Zealand Standard

## Plumbing and drainage

### Part 2: Sanitary plumbing and drainage

#### Section 1 Scope and general

##### 1.1 Scope

This document specifies requirements for the design and installation of sanitary plumbing and drainage from fixtures to a sewer, common effluent system or an on-site wastewater management system, as appropriate. It applies to new installations as well as alterations, additions or repairs to existing installations.

Illustrations used in this document are diagrammatic only and have been chosen without prejudice.

NOTE 1 The pre-treatment of trade wastes is not specified in this document.

NOTE 2 All sanitary plumbing and sanitary drainage installations for relocatable dwellings on long-term sites should conform to this document.

##### 1.2 Application

###### 1.2.1 Australia

This document shall be read in conjunction with the National Construction Code (NCC), Volume Three, the Plumbing Code of Australia (PCA).

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

###### 1.2.2 New Zealand

This document shall be read in conjunction with the New Zealand Building Code. This document may be used to demonstrate compliance with the New Zealand Building Code, Clause G13 Foul Water.

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

##### 1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

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

AS 1345, *Identification of the contents of pipes, conduits and ducts*

AS 4809, *Copper pipe and fittings — Installation and commissioning*

AS/NZS 1546.1, *On-site domestic wastewater treatment units, Part 1: Septic tanks*

AS/NZS 1546.2, *On-site domestic wastewater treatment units, Part 2: Waterless composting toilets*

AS 1546.3, *On-site domestic wastewater treatment units, Part 3: Aerated wastewater treatment systems*

AS/NZS 2032, *Installation of PVC pipe systems*

AS/NZS 2033, *Installation of polyethylene pipe systems*