AS/NZS 2032:2006
(Incorporating Amendment No. 1)

AS/NZS 2032:2006

Australian/New Zealand Standard™

# Installation of PVC pipe systems


This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 24 January 2006 and on behalf of the Council of Standards New Zealand on 3 February 2006.
This Standard was published on 18 April 2006.

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The following are represented on Committee PL-021:

Australian Chamber of Commerce and Industry
Australian Nuclear Science and Technology Organisation
Certification Interests (Australia)
CSIRO Manufacturing & Infrastructure Technology
Energy Networks Association of Australia
Engineers Australia
Local Government New Zealand
Master Plumbers, Gasfitters and Drainlayers New Zealand
New Zealand Water and Waste Association
Plastics Industry Pipe Association of Australia
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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 back cover.

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# PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-021, PVC, ABS and Polyamide Pipe Systems, to supersede AS 2032—1977, *Code of practice for installation of UPVC pipe system* and NZS 7643:1979, *Code of practice for the installation of unplasticized UPVC pipe systems*.

*This Standard incorporates Amendment No. 1 (October 2008). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this Standard is to provide uniform procedures for the installation of PVC pipe systems for both above- and below-ground applications.

The objective of this revision is to update the Australian Standard and publish as a joint Australian/New Zealand Standard.

This Standard primarily addresses the installation, testing and commissioning of PVC pipes and fittings for water plumbing, sanitary plumbing and drainage, stormwater drainage, and industrial and irrigation applications and is not intended to replace industry-specific installation codes or regulations.

For plumbing applications, reference should also be made to AS/NZS 3500, *Plumbing and drainage* (all parts). For above-ground applications using structured wall pipes, reference should also be made to the manufacturer.

For installations conveying gaseous fluids, reference should be made to AS 5601, *Gas installations*, and AS 3723, *Installation and maintenance of plastics pipe systems for gas*, as appropriate.

For water supply and sewerage network infrastructure involving the design and installation of PVC pipelines, reference should be made to Water Services Association of Australia (WSAA) Codes.

For design and installation of buried flexible pipelines, reference should be made to AS/NZS 2566.1, *Buried flexible pipelines* Part 1: *Design* and AS/NZS 2566.2, *Buried Flexible Pipelines* Part 2: *Installation*.

Thermal rerating of PVC pipes at temperatures above 20°C is considered a design issue and is not addressed in this Standard. Expert advice may be sought regarding derating at elevated temperatures.

A bibliography is provided for further references, which may be used to provide more detailed explanations or information regarding the installation of PVC pipelines.

For electrical installations, reference should be made to AS/NZS 3000, *Electrical installations*.

Australian and New Zealand Standards generally do not—

(a) restate the duties of employers, employees, designers and installers; or

(b) determine the applicability of regulatory limitations; or

(c) determine appropriate health and safety practices.

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

Notes to text are for information and guidance only.

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.

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## S E C T I O N 1 S C O P E A N D G E N E R A L

### 1.1 SCOPE

This Standard sets out methods for handling, storage, installation, testing and commissioning of polyvinyl chloride (PVC) pipelines, above- or below-ground, for pressure and non-pressure applications conveying liquids.

PVC materials covered are—

(a) PVC-U (unplasticized polyvinyl chloride);

(b) PVC-M (modified polyvinyl chloride);

(c) PVC-O (oriented polyvinyl chloride); and

(d) PVC-C (chlorinated polyvinyl chloride).

This Standard applies to PVC pipelines that carry liquids under either pressure or gravity flow situations and the components of which comply with, but are not limited to, the following:

(a) AS/NZS 1254—Stormwater.

(b) AS/NZS 1260—Drain, waste and vent.

(c) AS 1273—Rainwater downpipes.

(d) AS/NZS 1477—PVC-U pressure applications.

(e) AS 4441(Int)—PVC-O pressure applications;

(f) AS/NZS 4765—PVC-M pressure applications.

(g) ASTM F441—PVC-C Schedules 40 and 80.

### 1.2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document.

NOTE: Informative references are listed in Appendix A.

| | |
|---|---|
| AS | |
| 1273 | Unplasticized PVC (UPVC) downpipe and fittings for rainwater |
| 1646 | Elastomeric seals for waterworks purposes (all parts) |
| 4441(Int) | Oriented PVC (PVC-O) pipes for pressure applications |
| AS/NZS | |
| 1254 | PVC pipes and fittings for stormwater or surface water application |
| 1260 | PVC-U pipes and fittings for drain, waste and vent applications |
| 1477 | PVC pipes and fittings for pressure applications |
| 2566 | Buried flexible pipelines |
| 2566.2 | Part 2: Installation |