

Australian/New Zealand Standard™

**PVC-U pipes and fittings for drain, waste
and vent applications**



AS/NZS 1260:2017

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 22 March 2017 and by the New Zealand Standards Approval Board on 5 April 2017. This Standard was published on 9 May 2017.

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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/NZS 1260:2009.

The objective of this Standard is to outline minimum requirements for the manufacture and performance of PVC-U pipes and fittings for non-pressure drain, waste and vent (DWV) applications for use by manufacturers, specifiers and purchasers of such products.

The test criteria specified apply to pipes and fittings at the time of manufacture and are not intended to be used to assess the results from tests on pipes or fittings that have been in service.

For pipes of nominal diameter up to and including 80 mm, the pipes are specified solely in terms of the materials used and dimensions. There is no pipe stiffness requirement regardless of pipe type, as the stiffness of pipes in this size range is considerably higher than the minimum values used for larger pipes. By continuing to specify in terms of dimensions, the Standard ensures that existing installation practices, for example, the spacing between supports on near horizontal runs, can continue to be used. Most pipes installed above ground are in this size range.

Pipes of nominal size of 100 mm and above are specified in terms of minimum stiffness. Sufficient dimensional information is provided to ensure compatible joints and resistance to abrasion.

Pipes are specified in terms of stiffness classes measured in a standard test. The classes are not exactly the same as the earlier classification scheme (Class SH and Class SEH) but are similar. Classes SN4 and SN6 are suggested for plumbing and domestic use and for general municipal drainage.

Classes SN8 and SN10 are suggested for general municipal drainage and installations where higher pipe stiffness is required to minimize deflection of the installed pipes due to the load imposed by the backfill or surcharge or to poor installation practice.

Stiffness Class SN16 has been included in response to a request from New Zealand users who previously specified Class SEH-C for applications where heavy loads, for example, traffic loads, acted on buried pipes. Australian Standards for sewer and drainage pipes have not included a pipe of similar stiffness in the past and Australian manufacturers may not have DWV pipes of this class generally available.

It should be noted that, by convention, plastics pipe systems are often designed on the basis of 50 years extrapolated test data. This is established international practice but is not intended to imply the service life of drainage pipes is limited to 50 years. For correctly manufactured and installed systems, the actual life cannot be predicted, but can logically be expected to be well in excess of 100 years before major rehabilitation is required.

Appendix C sets out the provisions for best environmental practice PVC for drain, waste and vent applications. These provisions are in accordance with the credit criteria established by the Green Building Council of Australia in their Green Star rating program.

For best environmental practice PVC satisfying the provisions of Appendix C, an attestation of conformity for upstream materials such as chlorine and vinyl chloride, is necessary. Such attestations can take the form of a declaration of conformity prepared and maintained in accordance with AS ISO/IEC 17050, *Conformity assessment—Supplier's declaration of conformity*, Part 1: *General requirements*, and Part 2: *Supporting documentation*. Part 1 addresses the contents of the declaration of conformity and the procedures necessary to ensure ongoing conformity. Part 2 addresses the documentation required to support a declaration of conformity including the contents, traceability, availability and retention period.

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 tables are deemed to be requirements of this Standard.

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PVC-U pipes and fittings for drain, waste and vent applications

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for PVC-U pipes and fittings for sewer, drain, waste and vent applications above ground or below ground and is intended to be used when the pipeline is operating under gravity flow and the operating pressure is low. The Standard includes requirements for both plain and structured wall pipes and fittings.

NOTE: Requirements for the installation and use of pipes manufactured to this Standard are set out in AS/NZS 2032, AS/NZS 2566.1, AS/NZS 2566.2, AS/NZS 3500.2, AS/NZS 3500.5, WSA 02 and WSA 06.

Appendix C sets out additional requirements for pipes and fittings classed as best environmental practice PVC for drain, waste and vent applications.

1.2 APPLICATION

Fittings in accordance with this Standard shall satisfy the date marking requirements within three months of publication of this revision.

Appendix A specifies a means of demonstrating conformance with this Standard. Appendix A also sets out the minimum requirements for a sampling and testing plan. Where variations to this plan are made, demonstration of conformance with the minimum requirements may be necessary.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

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

AS	
681	Elastomeric seals—Material requirements for pipe joint seals used in water and drainage applications
681.1	Part 1: Vulcanized rubber
681.2	Part 2: Thermoplastic elastomers
1172	Water closets (WCs)
1172.1	Part 1: Pans
1179	Sampling procedures for inspection by attributes
1179.1	Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
1646	Elastomeric seals for waterworks purposes
2700	Colour standards for general purposes
2887	Plastic waste fittings