

AS 1273—1991

Reconfirmed 2018

Australian Standard<sup>1</sup>

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**Unplasticized PVC (UPVC) downpipe  
and fittings for rainwater**

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This Australian Standard was prepared by Committee PL/34, PVC Rainwater Goods. It was approved on behalf of the Council of Standards Australia on 11 January 1991 and published on 15 April 1991.

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The following interests are represented on Committee PL/34:  
CSIRO, Division of Building, Construction and Engineering  
Local Government Engineers Association of Victoria  
The Plastics Industry Association  
The University of Melbourne

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STANDARDS AUSTRALIA

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**RECONFIRMATION**

**OF**

**AS 1273–1991**

**Unplasticized PVC (UPVC) downpipe and fittings for rainwater**

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Technical Committee PL-021 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Water Services Association of Australia

## NOTES

AS 1273—1991

Australian Standard<sup>1</sup>

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## PREFACE

This Standard was prepared by Standards Australia's Committee for PVC Rainwater Goods, under the direction of the Plastics Standards Board, to supersede AS 1273.1—1974, *Unplasticized PVC (UPVC) downpipe and fittings for rainwater, Part 1: Downpipes*, and AS 1273.2—1974, *Unplasticized PVC (UPVC) downpipe and fittings for rainwater, Part 2: Moulded fittings*.

This Standard incorporates the content of both AS 1273.1 and AS 1273.2. It is technically equivalent to both these Standards, however the impact test is now carried out at 20°C only.

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## STANDARDS AUSTRALIA

## Australian Standard

## Unplasticized PVC (UPVC) downpipe and fittings for rainwater

**1 SCOPE** This Standard specifies requirements for rectangular and circular UPVC downpipe and fittings for the disposal of rainwater. Such pipes and fittings are suitable for external or internal use above ground where the head of water does not exceed 15 m.

NOTE: Alternative methods for determining compliance with this Standard are given in Appendix A.

**2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

## AS

1199	Sampling procedures and tables for inspection by attributes
1254	Unplasticized PVC (UPVC) pipes and fittings for storm or surface water applications
1399	Guide to AS 1199—Sampling procedures and tables for inspection by attributes
1462	Methods of test for unplasticized PVC (UPVC) pipes and fittings
1462.1	Method 1: Method for determining dimensions of UPVC pipes and fittings
1462.2	Method 2: Method for determining the flattening properties of UPVC pipes
1462.3	Method 3: Method for determining the impact characteristics of UPVC pipes
1462.4	Method 4: Method of determining reversion of UPVC pipes
1462.5	Method 5: Method for determining the softening point of UPVC pipes and fittings
1462.11	Method 11: Method for high temperature stress-relief testing of UPVC fittings
1462.18	Method 18: Method for determination of PVC and titanium dioxide content
2032	Code of practice for installation of UPVC pipe systems
3900	Quality systems—Guide to selection and use
3904	Quality systems—Guide to quality management and quality system elements

## ISO

Guide 44	General rules for ISO or IEC international third party certification scheme for products
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**3 DEFINITION** For the purposes of this Standard, the definition below applies.

**3.1 Downpipe**—a pipe for conveying rainwater, either externally or internally, from a roof or other parts of a building.

**4 CLASSIFICATION** Pipe and fittings manufactured to this Standard shall be classified DOWNPIPE.

**5 GENERAL REQUIREMENTS**

**5.1 Composition** The material from which the pipe and fittings are produced shall consist of polyvinyl chloride (PVC) together with additives necessary for the manufacture and performance of pipe to this Standard.

The additives shall contain a minimum of 2 parts of titanium dioxide pigment per 100 parts mass of PVC content, as determined by AS 1462.18.

**5.2 Dimensions**

**5.2.1 Rectangular pipe** When measured in accordance with AS 1462.1, the dimensions of rectangular pipe measured at the midpoint of the sides shall comply with the requirements of Table 1.

**5.2.2 Circular pipe** When measured in accordance with AS 1462.1, the dimensions of circular pipe shall comply with the requirements of Table 2.

**5.2.3 Fittings** When measured in accordance with AS 1462.1, the dimensions of sockets on fittings shall conform with the dimensions of Table 3 or Table 4 for solvent cemented fittings (see also Figure 1 and Figure 2), and Table 5 for rubber ring jointed fittings (see Figure 3).