AS 1254—1991

Australian Standard[®]

Unplasticized PVC (UPVC) pipes and fittings for storm and surface water applications This Australian Standard was prepared by Committee PL/34, PVC Rainwater Goods. It was approved on behalf of the Council of Standards Australia on 8 February 1991 and published on 15 April 1991.

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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Unplasticized PVC (UPVC) pipes and fittings for storm and surface water applications

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PREFACE

This Standard was prepared by the Standards Australia Committee on Plastics Rainwater Goods, under the direction of the Plastics Standards Board, to supersede AS 1254–1973.

This Standard is technically equivalent to the previous edition, however it has been expanded to include profile–wall pipe requirements.

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3

STANDARDS AUSTRALIA

Australian Standard Unplasticized PVC (UPVC) pipes and fittings for storm or surface water applications

1 SCOPE This Standard specifies requirements for UPVC pipes and fittings for underground disposal of storm or surface water, such pipes and fittings being intended for installation in accordance with AS 2032.

NOTES:

Pipe and fittings complying with this specification may be used for above-ground disposal of storm or surface water if protection from direct sunlight is provided.

2 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

1145 Determination of tensile properties of plastics materials

1199 Sampling procedures and tables for inspection by attributes

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 Part 1: Method for determining the dimensions of UPVC pipes and fittings

1462.2 Part 2: Method for determining the flattening properties of UPVC pipes

1462.3 Part 3: Method for determining the impact characteristics of UPVC pipes

1462.4 Part 4: Method for determining reversion of UPVC pipes

Part 5: Method for determining the softening point of UPVC pipes and fittings 1462.5

1462.11 Part 11:Method for high temperature stress-relief testing of UPVC fittings

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

3 DEFINITIONS For the purposes of this Standard the definitions below apply:

3.1 Pipe stiffness-pipe stiffness is a measure of the force required to compress a short piece of pipe between two rigid parallel plates at a controlled rate.

NOTE: Typical units for pipe stiffness are N/m per metre.

3.2 Stormwater or surface water-the natural water from ground surface, paved areas and roofs.

3.3 Type test-a test intended to prove the suitability and performance of a new composition, a new compounding or processing technique, or a new design or size of pipe, joint or fitting. Type tests are carried out when a change is made in polymer composition or method of manufacture.

4 NOTATION The following notation applies in this Standard:

- DN = nominal pipe size
- $D_{\rm b}$ = pipe mean inside diameter, in millimetres
- $D_{\rm c}$ = double spigot coupling outside diameter, in millimetres
- D_{i} = socket mean mouth diameter, in millimetres
- $D_{\rm m}$ = pipe mean outside diameter, in millimetres
- L pipe length, in millimetres =
- l socket length, in millimetres =
- l_{c} T = double spigot coupling minimum length, in millimetres
- =wall thickness, in millimetres
- T. =double spigot coupling wall thickness, in millimetres
- SN pipe stiffness in newtons per metre, per metre length of pipe. =

5 CLASSIFICATION UPVC storm or surface water pipes and fittings shall be classified as 'Stormwater'.



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