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AS 4139:2003 (R2018) Fibre reinforced concrete pipes and fittings

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Abbreviation
AS 4139:2003
Valid from
05/08/2003

Information provider
SAI Global
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Standards Australia
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Description

This Standard specifies minimum requirements for pipes and fittings manufactured from fibre-reinforced concrete using standard curing, including autoclaving, for the conveyance of gravity water supply, and stormwater, waste water and sewage drainage.

Scope

Four classes of pipes are covered by this Standard, distinguished on the basis of long-term design load: Class 1, Class 2, Class 3, and Class 4. Other classes of pipe may be designed using the principles described in this Standard. This Standard addresses the effect of creep under load by either, regression analysis of pipe materials (see Appendix H), or long-term stiffness prediction.

NOTES:

1 Fibre-reinforced concrete pipe is herein referred to as 'pipe'.

2 The load classes correspond with those of AS 4058.

3 This Standard does not cover the assessment of external service loads to which a pipe will be subjected to in a particular installation. Purchasers should, therefore, satisfy themselves that the class of pipe specified or selected on the basis of this Standard is suitable for its intended application. For buried pipes, reference to AS 3725 is required.

4 Guidance on the information to be supplied by the purchaser at the time of enquiry or order is given in Appendix A.

5 Appendix B provides concentration limits for commonly occurring soil/terrain constituents of the buried environment, but does not provide special requirements for pipes intended for use in environments aggressive to concrete. Where such applications are envisaged, the advice of the manufacturer should be sought.

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- [AS/NZS 3500.2:2003](#)

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- [AS/NZS 3725:2007](#)

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- [AS/NZS 2566.1:1998](#)
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- [AS/NZS 3500.0:2003](#)
AS 4139:2003 cites AS/NZS 3500.0:2003 Plumbing and drainage - Glossary of terms
- [AS/NZS 3582.3:2002](#)
AS 4139:2003 cites AS/NZS 3582.3:2002 Supplementary cementitious materials for use with portland and blended cement - Amorphous silica
- [SANZ/SAA HB 18.28:1991](#)
AS 4139:2003 cites SANZ/SAA HB 18.28:1991 Guidelines for third-party certification and accreditation - Guide 28 - General rules for a model third-party certification system for products

Australian Standards

- [AS 1199-1988](#)
AS 4139:2003 cites AS 1199-1988 Sampling procedures and tables for inspection by attributes
- [AS 1379-1997](#)
AS 4139:2003 cites AS 1379-1997 Specification and supply of concrete
- [AS 1478.1-2000 \(Reconfirmed in 2018\)](#)
AS 4139:2003 cites AS 1478.1-2000 (R2018) Chemical admixtures for concrete, mortar and grout - Admixtures for concrete
- [AS 1646.1-2000](#)
AS 4139:2003 cites AS 1646.1-2000 Elastomeric seals for waterworks purposes - General requirements
- [AS 1646.2-2000](#)
AS 4139:2003 cites AS 1646.2-2000 Elastomeric seals for waterworks purposes Material requirements for pipe joint seals used in water and wastewater applications - Specifies by prescription formulation
- [AS 1646.3-2000](#)
AS 4139:2003 cites AS 1646.3-2000 Elastomeric seals for waterworks purposes - Material requirements for pipe joints

seals used in water and wastewater applications with the exception of natural rubber and polyisoprene compounds

- [AS 2193-2002](#)

AS 4139:2003 cites AS 2193-2002 Calibration and classification of force-measuring systems

- [AS 2490-1997](#)

AS 4139:2003 cites AS 2490-1997 Sampling procedures and charts for inspection by variables for percent nonconforming

- [AS 2758.1:1998](#)

AS 4139:2003 cites AS 2758.1:1998 Aggregates and rock for engineering purposes

- [AS 3582.1-1998](#)

AS 4139:2003 cites AS 3582.1-1998 Supplementary cementitious materials for use with portland and blended cement - Fly ash

- [AS 3582.2-2001](#)

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- [AS 3725-1989](#)

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- [AS 3972-1997](#)

AS 4139:2003 cites AS 3972-1997 General purpose and blended cements

Other

- [ISO 10928:1997](#)

AS 4139:2003 cites ISO 10928:1997 Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes and fittings — Methods for regression analysis and their use

- [ISO 2859-1:1999](#)

AS 4139:2003 cites ISO 2859-1:1999 Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

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