

Australian Standard™

Cement mortar lining of steel pipes and fittings



S t a n d a r d s Australia

This Australian Standard was prepared by Committee WS-009, Rolled and Welded Steel Pipes. It was approved on behalf of the Council of Standards Australia on 16 March 2001 and published on 21 March 2001.

The following interests are represented on Committee WS-009:

Australian Chamber of Commerce and Industry
Australian Industry Group
New Zealand Manufacturers Federation
Water Services Association of Australia
Department of Land and Water Conservation

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1281–2001

Cement mortar lining of steel pipes and fittings

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NOTES

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PREFACE

This Standard was prepared by the Standards Australia Committee WS-009, Rolled and Welded Steel Pipes, to supersede AS 1281—1993.

This edition differs from the 1993 edition in the following respects:

- (a) The specification for aggregates has been changed to take account of changes made to AS 2758.1.
- (b) The specification for cement has been changed to take account of changes made to AS 3972.
- (c) Requirements for recycled water quality have been detailed within this Standard.
- (d) Requirements for admixtures specified for use in hand lining applications have been changed.
- (e) Changes have been made to the specification of defects.
- (f) The minimum curing temperature has been reduced to 0°C.
- (g) Set back lengths have been updated.
- (h) The methods for demonstrating compliance with the Standard have been updated. Test frequencies have been included.

The objective of this Standard is to provide the purchasers, suppliers and manufacturers of cement-lined steel pipe with a specification for minimum requirements, and means for demonstrating compliance with this Standard.

This Standard does not apply to the in situ cement mortar lining of pipelines and details of admixtures are not provided.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendices to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard

Cement mortar lining of steel pipes and fittings

1 SCOPE

This Standard specifies requirements for the cement mortar lining of steel pipes and fittings of 100 mm diameter and greater, by centrifugal, spray or hand application methods, prior to their installation in pipelines. These pipelines are used for the conveyance of water intended for human consumption or for the conveyance of wastewater or process water.

NOTES:

- 1 Guidelines to purchasers on information that should be supplied by the purchaser and those variables that should or may be agreed upon at the time of enquiry or order are given in Appendix A.
- 2 Alternative methods for demonstrating compliance with this Standard are given in Appendix B.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|----------|---|
| 1012 | Methods of testing concrete |
| 1012.3.1 | Method 3.1: Determination of the properties related to the consistency of concrete — Slump test |
| 1012.20 | Method 20: Determination of chloride and sulfate in hardened concrete and concrete aggregate |
| 1141 | Methods for sampling and testing aggregates |
| 1141.5 | Part 5: Bulk density and water absorption of fine aggregate |
| 1199 | Sampling procedure and tables for inspection by attributes |
| 1379 | The specification and manufacture of concrete |
| 1627 | Metal finishing — Preparation and pre-treatment of surfaces |
| 1627.9 | Part 9: Primal surface preparation standards for painting steel surfaces |
| 2758 | Aggregates and rock for engineering purposes |
| 2758.1 | Part 1: Concrete aggregates |
| 3799 | Liquid membrane-forming curing compounds for concrete |
| 3855 | Suitability of plumbing and water distribution products for contact with potable water |
| 4972 | Portland and blended cements |
- AS/NZS
- | | |
|--------|---|
| 3500 | National Plumbing and Drainage Code |
| 3500.0 | Part 0: Glossary of Terms |
| 4020 | Products for use in contact with drinking water |