AS 1281:2026

Australian STANDARD®

STANDARDS Australia

Cement mortar lining of steel pipes and fittings



AS 1281:2026

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Plumbing Products Industry Group
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Australian Standard®

Cement mortar lining of steel pipes and fittings

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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by the Standards Australia Committee WS-009, Rolled and Welded Steel Pipes, to supersede AS 1281-2001.

The objective of this document is to specify minimum 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.

The major changes in this edition are the following:

(a) General updates to meet current industry practice.

(b) Deletion of curing compounds.

(c) Addition of a means for demonstrating compliance to the high-speed spinning requirement.

(d) Changing the seal coat testing specification and updating the frequencies testing.

(e) Deleting set-back lengths for rubber-ring jointed pipes.

The terms “normative” and “informative” are used in Standards 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 only for information and guidance.

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Cement mortar lining of steel pipes and fittings

1 Scope

This document 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.

This document does not apply to the *in situ* cement mortar lining of pipelines.

NOTE 1 Guidelines 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.

NOTE 2 Means for demonstrating conformance to this document are given in Appendix B.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

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

AS 1012.3.1, *Methods of testing concrete, Method 3.1: Determination of the properties related to the consistency of concrete—Slump test*

AS 1012.20, *Methods of testing concrete, Method 20: Determination of chloride and sulfate in hardened concrete and concrete aggregates*

AS 1141.5, *Methods for sampling and testing aggregates, Method 5: Particle density and water absorption of fine aggregate*

AS 1199, *Sampling procedures and tables for inspection by attributes*

AS 1379, *The specification and manufacture of concrete*

AS 1579, *Arc-welded steel pipes and fittings for water and wastewater*

AS 1627.9, *Metal finishing—Preparation and pre-treatment of surfaces, Part 9: Pictorial surface preparation standards for painting steel surfaces*

AS 2758.1, *Aggregates and rock for engineering purposes, Part 1: Concrete aggregates*

AS 3972, *General purpose and blended cements*

AS/NZS 3500.0, *National Plumbing and Drainage Code, Part 0: Glossary of Terms*

AS/NZS 4020, *Products for use in contact with drinking water*

AS ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

ISO 2859-1, *Sampling procedures for inspection by attributes, Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection*

ISO 3951-1, *Sampling procedures for inspection by variables — Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL*

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