Australian/New Zealand Standard™

Buried corrugated metal structures

Part 4: Helically formed sinusoidal pipes





AS/NZS 2041.4:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CE-025, Corrugated Metal Drainage Pipes and Arches. It was approved on behalf of the Council of Standards Australia on 23 June 2010 and on behalf of the Council of Standards New Zealand on 28 June 2010.

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The following are represented on Committee CE-025:

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CE-025, Corrugated Metal Pipes and Arches, to supersede AS 1761—1985, adopted by Standards New Zealand as NZS 4405 in 1986.

The objective of this Standard is to provide designers, manufacturers and installers of buried helical lock-seamed sinusoidal metal pipes with requirements for the manufacture of such pipe for use in earthworks, primarily as culverts or accessways.

This Standard is Part 4 of the AS/NZS 2041 series, *Buried corrugated metal structures*, which comprises the following parts:

AS/NZS

- 2041 Buried corrugated metal structures
- 2041.1 Part 1: Design methods
- 2041.2 Part 2: Installation
- 2041.4 Part 4: Helically formed sinusoidal pipes (this Standard)
- 2041.6 Part 6: Bolted plate structures

Other parts of the series currently being drafted include the following:

- Part 3: Assessment of existing structures
- Part 5: Helically formed ribbed pipes
- Part 7 Bolted plate structures with transverse stiffeners
- Part 8: Metal box structures

This Edition includes the following changes:

- (a) Design requirements have been moved to AS/NZS 2041.1 *Buried corrugated metal structures* Part 1: *Design methods*, which includes new limit states methods.
- (b) Installation requirements are now referred to AS/NZS 2041.2 Buried corrugated metal structures, Part 2: Installation.
- (c) Notation is based on ISO 3898, Bases for design of structures—Notations—General symbols.
- (d) Materials and fabrication requirements have been updated.
- (e) Materials covered now include galvanized steel, polymer-coated steel, steel with aluminized coating and aluminium strip.
- (f) Reference tables for cover limits have not been included.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix 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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