

Australian Standard[®]

Galvanized steel wire strand



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The following are represented on Committee ME-007:

- Australian Chamber of Commerce and Industry
 - Institute of Materials Engineering Australasia
 - Shipping Australia
-

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Galvanized steel wire strand

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-007, Steel Wire Ropes to supersede AS 2841—1986.

This Standard incorporates Amendment No. 1 (February 2011). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide a consistent set of specifications for galvanized steel wire strand to aid communication between manufacturers, users and regulators of these products.

The designation system used to describe the mechanical properties and construction of the strand is generally taken from ISO 17893, *Steel wire ropes—Vocabulary, designations and classifications*. An obvious departure is the Australian terminology for Spiral Strand is ‘Strand’.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard
Galvanized steel wire strand

S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE

This Standard specifies requirements for galvanized round steel strand of the constructions given in Tables 1.1 and 1.2 and which are used for structural, and general purpose applications.

This Standard excludes strand for concrete stressing and for automobiles and aeroplanes.

1.2 REFERENCED DOCUMENTS

The following Standards are referred to in this Standard:

AS

1391 Methods for tensile testing of metals

1394 Round steel wire for ropes

2193 Calibration and grading of force-measuring systems

1.3 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

1.3.1 Minimum breaking force

The tensile force that a sample of the strand must withstand without breaking when loaded in the prescribed manner.

1.3.2 Measured breaking force

The maximum tensile force measured when a sample of strand is tested to destruction using the prescribed method.

1.3.3 Contra-lay

Strand with more than one layer in which at least one layer of wires is laid in the opposite direction to the other layers.

1.3.4 Core

The central member of a strand, which may be one of the following:

(a) A single wire (king).

(b) A group of wires.

1.3.5 Galvanized strand

Strand manufactured from zinc-coated or zinc alloy-coated wire produced in accordance with AS 1394.

1.3.6 Grade of wire

The minimum value of the tensile strength of the wire in megapascals (MPa), expressed as a number.