AS 4291.1:2015
ISO 898-1:2013

Mechanical properties of fasteners made of carbon steel and alloy steel

Part 1: Bolts, screws and studs

STANDARDS
Australia

This Australian Standard® was prepared by Committee ME-029, Fasteners. It was approved on behalf of the Council of Standards Australia on 24 July 2015.
This Standard was published on 26 August 2015.

The following are represented on Committee ME-029:

- Association of Accredited Certification Bodies
- Association of Wall and Ceiling Industries of Australia and New Zealand
- Australasian Corrosion Association
- Australian Chamber of Commerce and Industry
- Australian Engineered Fasteners and Anchors Council
- Australian Industry Group
- Australian Steel Institute
- Australian Technical Infrastructure Committee
- Austroads
- Bureau of Steel Manufacturers of Australia
- CSIRO
- Employers and Manufacturers Association
- Galvanizers Association of Australia
- Materials Australia
- National Association of Steel-Framed Housing
- National Association of Testing Authorities Australia
- New Zealand Heavy Engineering Research Association
- Society of Automotive Engineers—Australasia
- Steel Construction New Zealand
- Swinburne University of Technology

This Standard was issued in draft form for comment as DR AS 4291.1:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date
Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 4291.1:2015

Australian Standard®

Mechanical properties of fasteners made of carbon steel and alloy steel

Part 1: Bolts, screws and studs

PREFACE

This Standard was prepared by the Standards Australia Committee ME-029, Fasteners, to supersede AS 4291.1—2000.

The objective of this Standard is to provide manufacturers and users of threaded fasteners with material requirements and specifications for the mechanical properties of carbon steel and alloy steel bolts, screws and studs with ISO metric threads.

This Standard is identical with, and has been reproduced from ISO 898-1:2013, *Mechanical properties of fasteners made of carbon steel and alloy steel,* Part 1*: Bolts, screws and studs with specified property classes—Coarse thread and fine pitch thread.*

As this Standard is reproduced from an International Standard, the following applies:

(a)   In the source text 'this part of ISO 898' should read 'this Australian Standard'.

(b)   A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
ISO		AS	
261	ISO general purpose metric screw threads—General plan	1721	General purpose metric screw threads
		AS/NZS	
898	Mechanical properties of fasteners made of carbon steel and alloy steel	4291	Mechanical properties of fasteners
898-2	Part 2: Nuts with specified property classes—Coarse thread and fine pitch thread	4291.2	Part 2: Nuts with specified proof load values—Coarse thread
		AS	
		4291	Mechanical properties of fasteners made of carbon steel and alloy steel
898-5	Part 5: Set screws and similar threaded fasteners with specified hardness classes—Coarse thread and fine pitch thread	4291.5	Part 5: Set screws and similar threaded fasteners not under tensile stresses
898-7	Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm	4291.7	Part 7: Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm
965	ISO general purpose metric screw threads—Tolerances		
965-1	Part 1: Principles and basic data	1721	General purpose metric screw threads
965-2	Part 2: Limits of sizes for general purpose external and internal screw threads—Medium quality	1721	General purpose metric screw threads
10684	Fasteners—Hot dip galvanized coatings	1214	Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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

This is a free preview. Purchase the entire publication at the link below:

Product Page