

**AS/NZS 4291.1:1995**  
ISO 898-1:1988

Australian/New Zealand Standard

---

**Mechanical properties of  
fasteners**

**Part 1: Bolts, screws and studs**

---

## **AS/NZS 4291.1:1995**

---

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME/29, Fasteners. It was approved on behalf of the Council of Standards Australia on 18 April 1995 and on behalf of the Council of Standards New Zealand on 19 April 1995. It was published on 5 September 1995.

---

The following interests are represented on Committee ME/29:

Australian Chamber of Commerce and Industry  
Bureau of Steel Manufacturers of Australia  
Electricity Supply Association of Australia  
Fasteners Institute of Australia  
Federal Chamber of Automotive Industries  
Metal Building Products Manufacturers Association  
Metal Trades Industry Association of Australia  
New Zealand Manufacturers Federation

---

**Review of Standards.** To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

AS/NZS 4291.1:1995

# Australian/New Zealand Standard

---

## **Mechanical properties of fasteners**

### **Part 1: Bolts, screws and studs**

---

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA  
1 The Crescent,  
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND  
Level 10, Standards House,  
155 The Terrace,  
Wellington 6001 New Zealand

ISBN 0 7262 9812 3

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Fasteners. It is identical with, and has been reproduced from ISO 898-1:1988, *Mechanical properties of fasteners Part 1: Bolts, screws and studs*.

Under arrangements made between Standards Australia/Standards New Zealand and the international Standards bodies, ISO and IEC, as well as certain other Standards organizations, users of this Joint Standard are advised that the number of this Standard is not reproduced on each page; its identity is shown only on the cover and title pages.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

For the purpose of this Standard, the ISO text should be modified as follows:

- (a) *Terminology* The words 'Joint Australian/New Zealand Standard', should replace the words 'International Standard' wherever they appear.
- (b) *References* The references to International Standards should be replaced by references to the following Australian Standards:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
1	Standard reference temperature for industrial length measurements	—	
68	ISO general purpose screw threads—Basic profile	1721	General purpose metric screw threads
83	Steel—Charpy impact test (U-notch)	1544 1544.3	Methods for impact tests on metals Part 3: Charpy U-notch and keyhole notch
225	Fasteners—Bolts, screws, studs and nuts—Symbols and designations of dimension	—	
261	ISO general purpose metric screw threads—General plan	1721	General purpose metric screw threads
262	ISO general purpose metric screw threads—Selected sizes for screws, bolts and nuts	1721	General purpose metric screw threads
273	Fasteners—Clearance holes for bolts and screws	—	
965	ISO general purpose metric screw threads—Tolerances	1721 1721	General purpose metric screw threads General purpose metric screw threads
965.1	Part 1: Principles and basic data		
965.2	Part 2: Limits or sizes for general purpose bolt and nut threads—Medium quality		
6157	Fasteners—Surface discontinuities		
6157.1	Part 1: Bolts, screws and studs for general requirements	—	
6157.3	Part 3: Bolts, screws and studs for special requirements	—	

## iii

ISO		AS	
6506	Metallic materials— Hardness test—Brinell test	1816	Metallic materials— Brinell hardness test
6507	Metallic materials— Hardness test—Vickers test		
6507.1	Part 1: HV 5 to HV 100	1817	Metallic materials— Vickers hardness test
6507.2	Part 2: HV 0.2 to less than HV 5	—	
6508	Metallic materials— Hardness test—Rockwell test—Scales A, B, C, D, E, F, G, H, K.	1815	Metallic materials— Rockwell hardness test
6892	Metallic materials— Tensile testing	1391	Methods for tensile testing of metals

## © Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

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

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-