

Australian/New Zealand Standard™

Vehicle support stands

AS/NZS 2538:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-043, Vehicle Stands and Vehicle Ramps. It was approved on behalf of the Council of Standards Australia on 7 April 2004 and on behalf of the Council of Standards New Zealand on 7 May 2004. It was published on 17 June 2004.

The following are represented on Committee CS-043:

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Australian Automotive Aftermarket Association
Australian Chamber of Commerce and Industry
Australian Competition and Consumer Commission
Australian Industry Group
Certification Bodies (Australia)
Competition & Consumer Policy Division, Department of the Treasury
Consumer Affairs Victoria
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Australian/New Zealand Standard™

Vehicle support stands

Originated as AS 2538—1982.
Previous edition AS/NZS 2538:1995.
Fourth edition 2004.

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Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6059 7

PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee CS-043, Vehicle Stands and Vehicle Ramps to supersede AS/NZS 2538:1995.

The objective of this Standard is to provide manufacturers, importers, consumers, retailers and testing bodies with a set of performance requirements, to ensure that vehicle support stands (also known as axle stands or jack stands) are sufficiently robust so that they will not fail under normal conditions of use, and to ensure that axle stands are designed and constructed so that they will be stable and will not damage the vehicle when used in the correct manner.

This edition revises the instructions for use, makes editorial changes to clarify the text and updates the document to the current style.

The Standard was originally prepared in response to a request by the Defence Standardization Committee which felt that its experience of unsatisfactory performance of vehicle support stands in the defence field would also be of concern to the general public that uses similar stands for domestic purposes.

The term 'normative' has been used in this Standard to indicate that the appendix to which it applies is an integral part of the Standard.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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Vehicle support stands

1 SCOPE

This Standard specifies requirements for the design, construction, performance and labelling of vehicle support stands.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1192 Electroplated coatings—Nickel and chromium

1789 Electroplated zinc (electrogalvanized) coatings on ferrous articles (batch process)

AS/NZS

3750 Paints for steel structures

3750.15 Part 15: Inorganic zinc silicate paint

3 DEFINITIONS

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

3.1 Base plane

The plane of contact between the base of the vehicle support stand and the surface upon which it rests.

3.2 Nominated capacity

The capacity nominated by the manufacturer as the maximum load that is to be supported by a single vehicle support stand.

NOTE: Clause 8(b) requires that the nominated capacity be marked on the stand.

3.3 Projected plan area of the base

The maximum area in the base plane described by joining up the points of contact of the vehicle support stand with the base plane. (See Figure 1.)

3.4 Projected plan area of the engagement head

The area obtained by projecting the engagement head vertically downward onto the base plane. (See Figure 2.)

3.5 Stability factor

A measure of the ability of a vehicle support stand to resist tipping as a result of its geometric design.

3.6 Vehicle

Any wheeled vehicle used on a road including any towed unit such as a caravan or trailer, except any vehicle used on a railway or tramway.