

Australian/New Zealand Standard

Portable ramps for vehicles

AS/NZS 2640:1994

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The following interest are represented on Committee CS/43:

Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Federation of Consumer Organizations
Department of Consumer Affairs, N.S.W.
Department of Defence
Department of Public and Consumer Affairs, South Australia
Federal Bureau of Consumer Affairs, Australia
Ministry of Consumer Affairs, Victoria
Motor Trades Association of Australia
Office of Fair Trading and Business Affairs, Victoria

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Vehicle Stands and Vehicle Ramps. It is issued as a Joint Standard under the terms of the Active Cooperation Agreement between Standards Australia and Standards New Zealand. The Standard was originally prepared in response to a request from the Ministry of Consumer Affairs, Victoria, which was concerned about the poor quality of some car ramps following the collapse of a ramp after a car had been driven onto it.

This edition of the Standard incorporates a reduction in the minimum push-off load (Appendix A) to come into line with the British Standard BS AU224a, *Portable wheel ramps for cars and light vans*.

The actual angle of inclination has been removed in favour of a longitudinal movement test (Appendix B) to approve the ramp angle by assessing the drive-on and off capability. (Appendices have been renumbered to accommodate this test.)

Appendix E has been added as a guide to assist persons required to measure the ramp distortion.

This Standard aims at ensuring through minimum performance requirements, that portable vehicle ramps are sufficiently robust so that they will not fail under normal use. Further, the Standard aims at ensuring that the ramps are constructed and designed so that they will be stable and will not damage the vehicle or cause injury to any person when used in their intended manner.

Other Standards in related areas are as follows:

AS 2538	Vehicle support stands
AS 2615	Trolley jacks
AS/NZS 2693	Vehicle jacks

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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CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED DOCUMENTS	4
3 DEFINITIONS	4
4 CONSTRUCTION AND DESIGN	6
5 STRUCTURAL INTEGRITY	7
6 INSTRUCTIONS FOR ASSEMBLY	7
7 INSTRUCTIONS FOR USE	7
8 MARKING	7
 APPENDICES	
A ROLL-OFF TEST	8
B LONGITUDINAL MOVEMENT TEST	9
C STRUCTURAL INTEGRITY TEST	10
D OVERLOAD TEST	12
E GUIDANCE IN HEIGHT MEASUREMENT	14

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Portable ramps for vehicles**

1 SCOPE This Standard specifies requirements for the design, construction, performance and marking of portable vehicle ramps.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1192 Electroplated coatings—Nickel and chromium

1789 Electroplated coatings—Zinc on iron or steel

1790 Electroplated coatings—Cadmium on iron or steel

2105 Inorganic zinc silicate paint

NZS/BS

4758 Method for specifying electroplated coatings of nickel for engineering purposes

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

3.1 Angle of incline portion—The angle between the incline and the base plane.

3.2 Base plane—the plane which includes the points of contact between the base of the vehicle ramp and the surface upon which it rests.

3.3 Base width—the minimum width measured across the base of a vehicle ramp (see Figure 1).

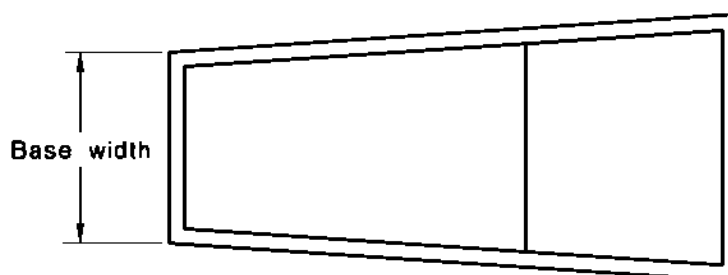


FIGURE 1 BASE WIDTH OF A TYPICAL VEHICLE RAMP

3.4 Longitudinal movement—sliding movement of the ramp in either the forward or rearward direction when the vehicle is driven on or off the ramp.

3.5 Nominated capacity—the capacity nominated by the manufacturer as the maximum mass that is to be supported by the vehicle ramp.

NOTE: The nominated capacity must be marked on the ramp (see Clause 8).