

Australian/New Zealand Standard™

Methods of testing protective helmets

Part 1: Definitions and headforms



AS/NZS 2512.1:2009

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The following are represented on Committee CS-097:

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-097, Testing of Helmets and Visors, to supersede AS/NZS 2512.1:1998, *Methods of testing protective helmets, Method 1: Definitions and headforms*.

The objective of this (Standard) is to specify materials and sizing of headforms and provide definitions to be used with other parts of the AS/NZS 2512 series.

The objective of the revision process was to review the headform sizes available. As a result a note has been added to Clause 5 on tolerancing. The headform size tables have not been changed.

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCED DOCUMENT	4
3 DEFINITIONS.....	4
4 HEADFORMS	11
5 TOLERANCING	12

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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Methods of testing protective helmets

Part 1: Definitions and headforms

1 SCOPE

This Standard sets out general information relating to the methods of testing protective helmets and defines commonly used terms. It also specifies materials and sizing of headforms for use in the testing of protective helmets. Details of headform dimensions below line *HH'* are included, to be used if a complete headform is required.

2 REFERENCED DOCUMENT

The document below is referred to in this Standard:

AS
1100 Technical drawing
1100.101 Part 101: General principles

3 DEFINITIONS

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

3.1 Approved

Approved by the appropriate regulatory authority.

3.2 Basic (basal) plane

A plane through the centre of the right and left ear openings and lower edge of the eye sockets (see Figure 1) and represented on a reference headform (see Figures 2 and 3) or test headform.

3.3 Bitragion coronal arc

The arc between the right tragion and left tragion as measured over the top of the head in a plane perpendicular to the mid-sagittal plane (see Figure 4).

3.4 Bitragion inion arc

The arc between the right tragion and left tragion as measured over the inion (see Figure 5).

3.5 Brim

Where fitted, a rim surrounding the shell that may form a gutter.

3.6 Chinstrap

An adjustment device, being a part of the retention system, fitting under the chin to secure the helmet to the head.

3.7 Comfort padding

A non-energy-absorbing material that may define the internal form of a helmet and may be used for helmet size adjustment.