

Australian/New Zealand Standard™

Methods of testing protective helmets

Method 3.1: Determination of impact energy attenuation—Helmet drop test

AS/NZS 2512.3.1:2007

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 2512.3.1:1999.

The objective of this revision is to incorporate changes to the specification of headform materials in Clause 5.

METHOD

1 SCOPE

This Standard sets out a method for determining the impact energy attenuation of a protective helmet.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

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| 2512 | Methods of testing protective helmets |
| 2512.1 | Method 1: Definitions and headforms |
| 2512.2 | Method 2: General requirements for the conditioning and preparation of test specimens and laboratory conditions |

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| J211 | Instrumentation for impact tests |
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3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 2512.1 apply.

4 PRINCIPLE

A complete helmet is mounted on an appropriately instrumented headform and dropped, in guided free fall, on to an anvil as specified in the product Standard. The acceleration imparted to the assembly is measured.