AS/NZS 4067:2004
(Incorporating Amendment No. 1)

AS/NZS 4067:2004

Australian/New Zealand Standard™

Firefighters' helmets

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-042, Helmets for Firefighters. It was approved on behalf of the Council of Standards Australia on 17 November 2003 and on behalf of the Council of Standards New Zealand on 23 December 2003.
This Standard was published on 27 January 2004.

The following are represented on Committee SF-042:

The Australasian Assembly of Volunteer Fire Brigades Associations
Australasian Fire Authorities Council
Australian Chamber of Commerce and Industry
Australian Industry Group
Certified Bodies (Australia)
Department of Defence
Metal Trades Industry Association of Australia
New Zealand Fire Service
New Zealand Helmet Testing Interests
New Zealand Manufacturing Interests
New Zealand Professional Firefighters Union
Testsafe Australia
United Firefighters Union of Australia

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This Standard was issued in draft form for comment as DR 01354.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-042, Helmets for Firefighters to supersede AS 4067—1994. During the preparation of this Standard, it was a matter of concern to the Committee that helmets were being sold that did not comply with the Standard. Accordingly, means of demonstrating compliance have been added to the Standard in a separate appendix.

This Standard incorporates Amendment No. 1 (May 2006). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

In this edition, the requirements for internal projections have been revised. It is acknowledged that most such projections are currently covered by a liner. Testing seeks to determine that no penetration of this liner occurs upon impact.

A test for helmet durability and new requirements for faceshield impact protection have been included.

The method of testing chinstrap strength has been changed and the method of testing flammability of chinstraps has been clarified.

It is the Committee's intention to align this Standard in the future with relevant ISO standards for firefighter's clothing when these are published. Accordingly, it is anticipated that ease of ignition and flame propagation tests for ear and neck protectors, including the specified burner will be changed at that time.

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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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for helmets designed to protect the head from a blow by a heavy or sharp object, as well as adverse environmental conditions likely to be encountered in structural firefighting.

This Standard specifies performance criteria for faceshields, ear and neck protectors where these are fitted to the helmet. Other accessories are not covered by this Standard.

Those organizations having responsibility for other specialist functions, e.g. bush firefighting, are urged to use protective equipment specifically designed for these activities e.g. Type 3 helmets specified in AS/NZS 1801.

1.2 OBJECTIVE

The objective of this Standard is to specify helmets that are to be worn for structural firefighting, in order to reduce the severity of head and facial injury associated with such activities.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199	Sampling procedures for inspection by attributes	
1199.0	Part 0:	Introduction to the ISO 2859 attribute sampling system
1199.1	Part 1:	Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
1815	Metallic materials—Rockwell hardness test	
1815.1	Test methods scales (A, B, C, D, E, F, G, H, K, N, T)	
2755	Textile fabrics—Burning behaviour	
2755.1	Part 1:	Determination of ease of ignition of vertically oriented specimens
2755.2	Part 2:	Measurement of flame spread properties of vertically oriented specimens

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1337	Eye protectors for industrial applications	
1801	Occupational protective helmets	
1906	Retroreflective materials and devices for road traffic control purposes	
1906.1	Part 1:	Retroreflective materials
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
2512.3.1	Method 3.1:	Determination of impact energy attenuation—Helmet drop test