

Australian/New Zealand Standard™

**Protective footwear for firefighters—
Requirements and test methods**



AS/NZS 4821:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-049, Firefighters Personal Protective Equipment. It was approved on behalf of the Council of Standards Australia on 7 June 2006 and on behalf of the Council of Standards New Zealand on 16 June 2006.
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The following are represented on Committee SF-049:

Association of Accredited Certification Bodies
Australasian Fire Authorities Council
Australian Chamber of Commerce and Industry
Australian Industry Group
CSIRO Textile and Fibre Technology
Certification Interests (Australia)
Council of Textile and Fashion Industries of Australia
Department of Defence (Australia)
Footwear Manufacturers Association of Australia
New Zealand Fire Service
New Zealand Footwear Industry Association
New Zealand Leather & Shoe Research Association
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**Protective footwear for firefighters—
Requirements and test methods**

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-049, Firefighters' Protective Clothing to supersede AS/NZS 4821(Int):2002.

The changes in this edition are mainly of an editorial nature, in order to raise the status of AS/NZS 4821(Int):2002 to a full Standard.

It is the Committee's intention that when both ISO Standards, *Wildland firefighters' personal protective equipment—Requirements and test methods* (ISO 16073) and *Structural personal protective equipment—Requirements and test methods* (ISO 11613) are published and adopted, this Standard will be withdrawn.

The objective of this Standard is to provide minimum performance requirements for firefighters' footwear intended for firefighting and associated activities to enable the manufacture and selection of footwear that does not melt or ignite when exposed to flame or risks to which firefighters may be exposed.

This Standard is not intended to restrict any jurisdiction, purchaser or manufacturer from exceeding these minimum requirements.

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.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	5
1.2 REFERENCED DOCUMENTS	5
1.3 DEFINITIONS	5
1.4 TYPES AND CLASSIFICATIONS OF FOOTWEAR	5
1.5 REQUIREMENTS FOR FIREFIGHTERS' FOOTWEAR	6
1.6 RISK ASSESSMENT	6
1.7 TRAINING	6
SECTION 2 REQUIREMENTS FOR WHOLE FOOTWEAR	
2.1 SAMPLING AND CONDITIONING	7
2.2 REQUIREMENTS	7
SECTION 3 PERFORMANCE AND TESTING REQUIREMENTS	
3.1 GENERAL	9
3.2 LACES	12
3.3 THREADS	12
3.4 WHOLE FOOTWEAR HEAT RESISTANCE TEST	13
3.5 THERMAL BEHAVIOUR	13
3.6 DETERMINATION OF RESISTANCE OF UPPER TO CUTTING	13
3.7 RIGIDITY OF TOE	13
3.8 OUTSOLE	14
3.9 RESISTANCE TO CHEMICALS	15
3.10 RESISTANCE TO MICRO-ORGANISMS	15
3.11 ZIPPER (SLIDE FASTENER)	15
3.12 EYELET AND STUD POST ATTACHMENT	15
3.13 SLIP RESISTANCE	15
3.14 ELECTRICAL PROPERTIES	15
3.15 pH VALUE	15
3.16 LEATHER CHROMIUM CONTENT	16
SECTION 4 TEST METHODS	
4.1 THREAD AND LACE HEAT RESISTANCE TEST	17
4.2 HEAT RESISTANCE TEST	17
4.3 CONTACT HEAT	18
4.4 RADIANT HEAT	18
4.5 FLAME RESISTANCE	18
4.6 DETERMINATION OF RESISTANCE OF UPPER TO CUTTING	19
4.7 RIGIDITY OF TOE	20
4.8 ZIPPER	20
4.9 EYELET AND STUD	21
4.10 THREAD STRENGTH	22
4.11 WATER RESISTANCE	22
SECTION 5 MARKING	
5.1 BASIC MARKING	23
5.2 ADDITIONAL INFORMATION	24

APPENDICES

A	EXAMPLE GUIDELINES AND CONSIDERATIONS FOR PERFORMING A RISK ASSESSMENT	27
B	ASSESSMENT OF FOOTWEAR	30

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Protective footwear for firefighters—Requirements and test methods**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies test methods and minimum performance requirements for three (3) types of footwear for firefighters.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

- | | |
|----------|---|
| 2161 | Occupational protective gloves |
| 2161.3 | Part 3: Protective gloves against mechanical risks |
| RUL PF.2 | Rulings to protective footwear Standards—Ruling 2: Flame resistance (Ruling to AS/NZS 4821(Int):2002) |

ISO

- | | |
|------|---|
| 6940 | Textile fabrics—Burning behaviour—Determination of ease of ignition of vertically oriented specimens |
| 6942 | Protective clothing—Protection against heat and fire—Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat |

20344	Personal protective equipment—Test methods for footwear
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20345	Personal protective equipment—Safety footwear
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EN

14119	Testing of textiles—Evaluation of the action of microfungi
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prEN

13287:2002	Safety, protective and occupational footwear for professional use—Test method and specification for the determination of slip resistance
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13832:2000	Footwear protecting against chemicals and micro-organisms
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SATRA

PM 74	Uppers and bottoms thread—Physical testing—Break and extension at break
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1.3 DEFINITIONS

For the purposes of this Standard, the terms and definitions given in ISO 20345 apply.

1.4 TYPES AND CLASSIFICATIONS OF FOOTWEAR

Footwear for firefighters shall be classified in accordance with Table 1.1 and Table 1.2.