

Australian/New Zealand Standard™

**Personal eye protection**

**Part 6: Prescription eye protectors  
against low and medium impact**



## **AS/NZS 1337.6:2012**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-006, Eye and Face Protection. It was approved on behalf of the Council of Standards Australia on 18 May 2012 and on behalf of the Council of Standards New Zealand on 28 May 2012.

This Standard was published on 22 June 2012.

---

The following are represented on Committee SF-006:

Association of Accredited Certification Bodies  
Australasian Fire and Emergency Service Authorities Council  
Australian Chamber of Commerce and Industry  
Australian Dispensing Opticians Association  
Australian Industry Group  
Economic Development Agencies of New Zealand  
New Zealand Association of Optometrists  
Optical Distributors and Manufacturers Association of Australia  
Optometrists Association Australia  
Queensland University of Technology  
TestSafe Australia  
The Human Factors & Ergonomics Society of Australia  
The University of New South Wales  
University of Auckland  
Welding Technology Institute of Australia

---

### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at [www.saiglobal.com.au](http://www.saiglobal.com.au) or Standards New Zealand web site at [www.standards.co.nz](http://www.standards.co.nz) and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

---

*This Standard was issued in draft form for comment as DR AS/NZS 1337.6.*

---

# Australian/New Zealand Standard™

## Personal eye protection

### Part 6: Prescription eye protectors against low and medium impact

Originated as AS/NZS 1337.6:2007.  
Second edition 2012.

#### **COPYRIGHT**

© Standards Australia Limited/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-006, Eye and Face Protection, to supersede AS/NZS 1337.6:2007, *Personal eye protection, Part 6: Prescription eye protectors against low and medium impact*.

Although prescription eye protectors receive some attention in AS/NZS 1336, *Recommended practices for occupational eye protection*, and in AS/NZS 1337.1:2010, *Personal eye protection, Part 1: Eye and face protectors for occupational applications*, it was felt that a Standard dealing specifically with minimum safety requirements for prescription eye protectors was necessary for areas where low and medium impact from flying particles and fragments from industrial and non-industrial operations occurs.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
FOREWORD .....	4
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	5
1.2 OBJECTIVE .....	5
1.3 APPLICATION .....	5
1.4 REFERENCED DOCUMENTS.....	5
1.5 DEFINITIONS.....	6
SECTION 2 REQUIREMENTS FOR LENSES	
2.1 GENERAL.....	7
2.2 LENS MATERIALS.....	7
2.3 MINIMUM LENS THICKNESS .....	7
SECTION 3 REQUIREMENTS FOR FRAMES	
3.1 LOW IMPACT EYE PROTECTORS .....	8
3.2 MEDIUM IMPACT EYE PROTECTORS.....	9
SECTION 4 REQUIREMENTS FOR EDGED LENSES AND ASSEMBLED PRESCRIPTION EYE PROTECTORS	
4.1 GENERAL.....	11
4.2 IMPACT RESISTANCE.....	11
SECTION 5 TESTING	
5.1 COMBINATIONS OF SAMPLES TO BE TESTED .....	12
5.2 INTER-PUPILLARY DISTANCE .....	12
5.3 SAMPLE NUMBERS.....	12
SECTION 6 MARKING	
6.1 LENS MARKING.....	13
6.2 FRAME MARKING.....	13
SECTION 7 ADDITIONAL INFORMATION.....	14
APPENDIX A SAMPLE FORM .....	15

## FOREWORD

In occupational health and safety, there is a recognized hierarchy of hazard control measures, based on the principle that hazards should be removed by 'engineering out', and that personal protective equipment is a last line of defence. Creation of this new Standard was in response to a demand to formalize and to establish clear guidance for those situations where eye protection and correction of vision are required at the same time.

This Standard provides minimum performance requirements, as well as methods for impact resistance and eye protection for prescription eye protectors.

Validation of prescription eye protectors using this Standard is based on type testing of specific protective products and random testing of manufactured items to ensure ongoing compliance. This process eliminates the necessity for testing every prescription eye protection item provided to wearers. Prescription lenses are manufactured individually to the unique visual requirements of the wearer and impact testing of eye protectors to determine their compliance is likely to make the protector unfit for use.

Requirements for the protection of prescription eye protector wearers are unique and the objective of this Standard is to promote improvements in practices and the reduction of incidences of eye damage in occupational situations.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND  
**Australian/New Zealand Standard**  
**Personal eye protection**

---

Part 6: Prescription eye protectors against low and medium impact

S E C T I O N 1 S C O P E A N D G E N E R A L

**1.1 SCOPE**

This Standard specifies minimum requirements for eye protectors fitted with prescription lenses intended to provide low or medium impact eye protection from flying particles and fragments in occupational situations. It does not apply to eye protectors in which the prescription lenses are fitted behind plano protective lenses. These are covered by AS/NZS 1337.1.

**1.2 OBJECTIVE**

The objective of this Standard is to provide regulatory authorities, manufacturers, importers, distributors, retailers, employers, employees and other users with minimum requirements for protection against low and medium impact in order to minimize safety risks and occupational hazards by the use of appropriate prescription eye protectors.

**1.3 APPLICATION**

Prescription eye protectors complying with this Standard are intended to give both impact protection and prescribed refractive correction of vision.

For protection from hazards other than low or medium impact, appropriate protection as recommended in AS/NZS 1336 should also be worn covering the prescription eyewear, e.g. dust, splashing materials, molten materials, harmful gases, vapours or aerosols, high energy flying particles or fragments. These are covered in AS/NZS 1337.1. Requirements for protection from sources of optical radiation, other than the sun, are covered in AS/NZS 1338, Parts 1 to 3.

**1.4 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS/NZS

- 1336 Recommended practices for occupational eye protection
- 1337 Personal eye protection
- 1337.0 Part 0 Eye and face protectors—Vocabulary
- 1337.1 Part 1: Eye and face protectors for occupational applications
- 1338 Filters for eye protectors
- 1338.1 Part 1: Filters for protection against radiation generated in welding and allied operations
- 1338.2 Part 2: Filters for protection against ultraviolet radiation
- 1338.3 Part 3: Filters for protection against infra-red radiation

AS/NZS ISO

- 21987 Ophthalmic optics—Mounted spectacle lenses