

AS/NZS 1906.1:2007
(Incorporating Amendment No. 1)

AS/NZS 1906.1:2007

Australian/New Zealand Standard™

**Retroreflective materials and devices for
road traffic control purposes**

Part 1: Retroreflective sheeting



AS/NZS 1906.1:2007

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS-049, Retroreflective Devices. It was approved on behalf of the Council of Standards Australia on 19 January 2007 and on behalf of the Council of Standards New Zealand on 2 February 2007.

This Standard was published on 21 February 2007.

The following are represented on Committee MS-049:

AUSTROADS

Accident Compensation Corporation, New Zealand
Australian Chamber of Commerce and Industry
Australian Industry Group
AWTA Textile Testing
Land Transport Safety Authority, New Zealand
National Association of Testing Authorities Australia
Roadmarking Industry Association of Australia
Road Safety Manufacturers Association, New Zealand
The University of New South Wales
Transit New Zealand
Victorian College of Optometry

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 Standards may also be withdrawn.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 or Standards New Zealand web site at 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 05585.

AS/NZS 1906.1:2007
(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Retroreflective materials and devices for road traffic control purposes

Part 1: Retroreflective sheeting

Originated in Australia as SAA Int. 354—1955.
Previous edition AS/NZS 1906.1:1993.
Second edition 2007.
Reissued incorporating Amendment No.1 (June 2014).

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.

ISBN 0 7337 8050 4

PREFACE

This Standard was prepared by the Joint Australia/New Zealand Committee MS-049, Retroreflective Devices and supersedes AS/NZS 1906.1:1993, *Retroreflective materials and devices for road traffic control purposes*, Part 1: *Retroreflective materials*.

This Standard incorporates Amendment No. 1 (June 2014). 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.

It is one of a series of Standards on retroreflective devices as follows:

AS/NZS

- 1906 Retroreflective materials and devices for road traffic control purposes
- 1906.1 Part 1: Retroreflective sheeting (this Standard)
- 1906.2 Part 2: Retroreflective devices (non-pavement application)
- 1906.4 Part 4: High visibility materials for safety garments

AS

- 1906 Retroreflective materials and devices for road traffic control purposes
- 1906.3 Part 3: Raised pavement markers (retroreflective and non-retroreflective)

The objective of this Standard is to provide road authorities, manufacturers and testing authorities with a uniform supply specification for retroreflective sheeting.

The following are the principal changes and additions to this edition:

- (a) Introduction of Class 1W microprismatic retroreflective sheeting.
- (b) Introduction of retroreflective sheeting specifically designed for motor vehicle number plates.
- (c) CIL and colour specification and measurement for fluorescent sheeting.
- (d) Specification of durability test exposures in terms of radiant energy received rather than by exposure time.
- (e) Revised test for performance under simulated rainfall conditions.
- (f) New informative appendix on selection and use of sheeting.

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>
FOREWORD.....	4
 SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	5
1.2 REFERENCED DOCUMENTS.....	5
1.3 DESCRIPTION	5
1.4 DEFINITIONS.....	6
1.5 CLASSIFICATION	8
 SECTION 2 REQUIREMENTS FOR SHEETINGS OTHER THAN FOR NUMBER PLATES	
2.1 PHOTOMETRIC PROPERTIES	9
2.2 COLOUR.....	9
2.3 RAINFALL PERFORMANCE.....	16
2.4 PHYSICAL PROPERTIES	16
2.5 ADHESIVE	17
2.6 DURABILITY	18
2.7 COLOUR-PROCESSING PROPERTIES	19
2.8 PACKAGING.....	20
2.9 SHELF LIFE.....	20
2.10 MARKING	20
 SECTION 3 SHEETINGS FOR MOTOR VEHICLE NUMBER PLATES—CLASSES NP AND NP(EMB)	
3.1 PHOTOMETRIC PROPERTIES	21
3.2 COLOUR.....	22
3.3 RAINFALL PERFORMANCE.....	22
3.4 PHYSICAL PROPERTIES	23
3.5 ADHESIVE	23
3.6 DURABILITY	23
3.7 COLOUR-PROCESSING PROPERTIES	23
3.8 PACKAGING.....	24
3.9 SHELF LIFE.....	24
3.10 MARKING	24
 APPENDICES	
A PHOTOMETRIC PROPERTIES TEST	25
B SELECTION AND USE OF RETROREFLECTIVE SHEETING	29
C COLOUR AND LUMINANCE FACTOR TESTS—FLUORESCENT AND NON- FLUORESCENT SHEETING	33
D CIE CHROMATICITY LIMITS (COLOUR SPACES) FOR COLOUR DESIGNATION	36
E PHOTOMETRIC PERFORMANCE TEST UNDER SIMULATED RAIN CONDITIONS.....	43
F PHYSICAL PROPERTIES TEST.....	46
G SOLVENT RESISTANCE TEST	50
H ADHESIVE PROPERTIES TESTS	51
I DURABILITY TESTS.....	53
J PREPARATION OF TEST PIECES	56

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-