

AS/NZS 4586:2004
(Incorporating Amendment No. 1)

AS/NZS 4586:2004

Australian/New Zealand Standard™

**Slip resistance classification of new
pedestrian surface materials**



AS/NZS 4586:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-094, Slip Resistance of Flooring Surfaces. It was approved on behalf of the Council of Standards Australia on 22 September 2004 and on behalf of the Council of Standards New Zealand on 1 October 2004. This Standard was published on 26 October 2004.

The following are represented on Committee BD-094:

A1	Australian Building Codes Board Australian Institute for Non-Destructive Testing Australian Resilient Floorcovering Association Australian Stone and Terrazzo Association Australian Tile Council Building Service Contractors Association of Australia CSIRO Manufacturing and Infrastructure Technology Ceramic Tile Manufacturers Association Clay Brick and Paver Institute Concrete Masonry Association of Australia Ergonomics Society of Australia Housing Industry Association Local Government and Shires Associations of New South Wales National Injury Prevention Advisory Council Safety Institute of Australia The Royal Australian Institute of Architects The University of New South Wales
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-094, Slip Resistance of Flooring Surfaces, to supersede AS/NZS 4586:1999.

This Standard incorporates Amendment No. 1 (February 2005). 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.

The objective of this Standard is to provide users and specifiers of pedestrian surface materials (architects, engineers, ergonomists, facility managers, manufacturers and the like) with means for classifying such surfaces according to their pedestrian slip resistance for use in the selection of surfaces.

The slip resistance classifications have been determined for unused surfaces using specific conditions, for instance special rubbers, barefoot testing, and so on. These classifications are based on an assessment of the contribution of a pedestrian surface to the risk of slipping and they will assist in the specification of a surface material suitable for most pedestrian applications. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface after classification.

HB 197, *An introductory guide to the slip resistance of pedestrian surface materials*, provides guidelines for the selection of slip resistant pedestrian surfaces classified in accordance with this Standard. It is recommended that this handbook be read in conjunction with this Standard.

Lapping paper testing is currently the subject of ongoing research, particularly with regard to the issue of test slider preparation for the pendulum test. Standards Australia Committee BD-094 is evaluating the results of this research. The committee may find it appropriate to issue further amendments to this Standard should improved differentiation between the slip potential of materials be identified. BS 7976-2 *Pendulum tester Part 2: Method of operation* provides details of the 3 µm lapping paper procedure.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

This Standard provides a means of demonstrating compliance for the acceptance and rejection of new surfaces for nominated criteria.

A new floor is considered to become an existing floor once it has been installed and made available for pedestrian traffic, other than movements specifically for purposes of formal testing to determine compliance with this Standard. Testing of existing floors is covered in AS/NZS 4663, *Slip resistance measurement of existing pedestrian surfaces*.

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 APPLICATION	4
3 REFERENCED DOCUMENTS.....	5
4 DEFINITIONS.....	5
5 CLASSIFICATION OF SLIP RESISTANCE.....	6
APPENDICES	
A WET PENDULUM TEST METHOD.....	9
B DRY FLOOR FRICTION TEST METHOD.....	20
C WET/BAREFOOT RAMP TEST METHOD.....	25
D OIL-WET RAMP TEST METHOD.....	28
E DISPLACEMENT VOLUME TEST METHOD.....	33

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