

AS 4685.2—2004
(Incorporating Amendment Nos 1 and 2)

AS 4685.2—2004

Australian Standard[®]

Playground equipment

**Part 2: Particular safety requirements
and test methods for swings**



This Australian Standard® was prepared by Committee CS-005, Playground Equipment. It was approved on behalf of the Council of Standards Australia on 13 September 2004. This Standard was published on 13 October 2004.

The following are represented on Committee CS-005:

- Australian Council of State School Organisations
 - Australian Early Childhood Association
 - Australian Industry Group
 - Australian Local Government Association
 - Australian Public Risk Insurance Management Association
 - Consumers Federation of Australia
 - Department for Human Resources, S.A.
 - Engineers Australia
 - Kidsafe
 - New South Wales Department of Community Services
 - New South Wales Health Department
 - Office of Fair Trading, N.S.W.
 - Parks and Leisure, Australia
 - Plastics and Chemicals Industries Association
 - Playgrounds & Recreation Association of Victoria
 - Timber Preservers Association of Australia
-

This Standard was issued in draft form for comment as DR 02345.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that 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Standards may also be withdrawn.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 that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **www.standards.org.au**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **mail@standards.org.au**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 4685.2—2004
(Incorporating Amendment Nos 1 and 2)

Australian Standard[®]

Playground equipment

Part 2: Particular safety requirements and test methods for swings

Originated as part of AS 1924.1—1976.
Previous edition AS 1924.1—1981 and AS 1924.2—1981.
Part of AS 1924.1—1981 and AS 1924.2—1981 revised,
amalgamated and redesignated as AS 4685.2—2004.
Reissued incorporating Amendment No. 1 (October 2006).
Reissued incorporating Amendment No. 2 (April 2008).

COPYRIGHT

© Standards Australia

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.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia
ISBN 0 7337 6294 8

PREFACE

This Standard was prepared by Standards Australia Committee CS-005, Playground Equipment to supersede, in part, AS 1924.2—1981, *Playground equipment for parks, schools and domestic use*, Part 2: *Design and construction—Safety aspects*.

This Standard incorporates Amendment No. 1 (October 2006) and Amendment No. 2 (April 2008). 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.

This Standard is Part 2 of the following series:

AS

4685	Playground equipment
4685.1	Part 1: General safety requirements and test methods
4685.2	Part 2: Particular safety requirements and test methods for swings
4685.3	Part 3: Particular safety requirements and test methods for slides
4685.4	Part 4: Particular safety requirements and test methods for runways
4685.5	Part 5: Particular safety requirements and test methods for carousels
4685.6	Part 6: Particular safety requirements and test methods for rocking equipment

This Standard must be used in conjunction with AS 4685.1, which comprises requirements and test methods that apply to all playground equipment.

Where swings are combined with other items of children's playground equipment, the relevant Standards on the other items of equipment apply, in addition to this Standard.

This Standard is based on, but not equivalent to, EN 1176-2:2003, *Playground equipment*, Part 2: *Additional specific safety requirements and test methods for swings*, which was prepared by CEN/TC 136 Sports Playgrounds and Recreational Equipment.

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.

This Standard will apply from the date of publication. However the committee has decided that, to avoid excessive costs to manufacturers and operators, the superseded Standards, AS 1924.1 and AS 1924.2, will continue as an alternative for a period of one year after the publication date.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 OBJECTIVE.....	4
1.3 APPLICATION	4
1.4 REFERENCED DOCUMENTS	4
1.5 DEFINITIONS	4
SECTION 2 SAFETY REQUIREMENTS	
2.1 GENERAL	8
2.2 GROUND CLEARANCE, h_2	8
2.3 SAFETY CLEARANCE, h_4 , FOR SINGLE POINT SUSPENSION SWINGS (TYPE 3)	8
2.4 MINIMUM CLEARANCE AND STABILITY OF SWING SEATS WITH MORE THAN ONE POINT OF SUSPENSION	8
2.5 MEANS OF SUSPENSION.....	8
2.6 SEATS AND PLATFORMS	8
2.7 STRUCTURAL INTEGRITY	10
2.8 FRAMEWORK	10
2.9 IMPACT AREA	11
2.10 ADDITIONAL REQUIREMENTS FOR SWINGS WITH SEVERAL ROTATIONAL AXES (TYPE 2)	11
2.11 ADDITIONAL REQUIREMENTS FOR SINGLE-POINT SWINGS (TYPE 3)	11
SECTION 3 MARKING	14
APPENDICES	
A SWING SEAT SEPARATION	15
B METHOD FOR DETERMINATION OF SWING SEAT IMPACT RESISTANCE ..	16
C FREE HEIGHT OF FALL AND FALL ZONES FOR VARIOUS SWING PIVOT HEIGHTS	19

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
-