AS 4685.11:2014

Australian STANDARD

Playground equipment

Part 11: Additional specific safety requirements and test methods for spatial networks (EN 1176-11:2008, MOD)

AS 4685.11:2014, Playground equipment, Part 11: Additional specific safety requirements and test methods for spatial networks (EN 1176-11:2008, MOD), is a modified adoption of EN 1176-11:2008, Playground equipment and surfacing, Part 11: Additional specific safety requirements and test methods for spatial network, and is reproduced with the permission of CEN, Avenue Marnix 17, B-1000 Brussels, Belgium. All exploitation rights of the European Standards in any form and by any means are reserved world-wide to CEN and its National Members, and no reproduction may be undertaken without express permission in writing by CEN through Standards Australia Limited.

STANDARDS Australia

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)

Documents
Document Sharing Hub

Full document details: AS 4685.11-2014

This Australian Standard® was prepared by Committee CS-005, Playground Equipment. It was approved on behalf of the Council of Standards Australia on 12 December 2014.
This Standard was published on 19 December 2014.

The following are represented on Committee CS-005:

- Australian Competition and Consumer Commission
- Australian Industry Group
- Australian Institute of Landscape Architects
- Department of Education and Communities, NSW
- Department for Health and Ageing, SA
- Early Childhood Australia
- Education and Early Childhood Services Registration and Standards Board
- Engineers Australia
- Institute of Public Works Engineering Australasia
- Kidsafe
- Monash University
- National Association of Testing Authorities Australia
- NSW Fair Trading
- Occupational Therapy Australia
- Play Australia
- The Play Equipment Importers and Exporters

This Standard was issued in draft form for comment as DR AS 4865.11:2014.

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Standards may also be withdrawn.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.

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)

Documents
Document Sharing Hub

Full document details: AS 4685.11-2014

Australian Standard®

Playground equipment

Part 11: Additional specific safety requirements and test methods for spatial networks (EN 1176-11:2008, MOD)

Originated as AS 4685.11—2012.
Second edition AS 4685.11:2014.

COPYRIGHT

© Standards Australia Limited

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.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 74342 951 8

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)

Documents
Document Sharing Hub

Full document details: AS 4685.11-2014

PREFACE

This Standard was prepared by the Standards Australia Committee CS-005, Playground Equipment, to supersede AS 4685.11—2012, *Playground equipment*, Part 11: *Additional specific safety requirements and test methods for spatial network*.

The objective of this Standard is to provide Australian designers and operators of children's playground equipment with additional specific safety requirements and test methods for spatial networks to enhance safety levels for children using this equipment.

This revision aligns the Standard with AS 4685.1:2014 and increases free height of fall *h* from 2.5 m to 3.0 m.

This Standard is an adoption with national modifications and has been reproduced from EN 1176-11:2008, *Playground equipment and surfacing*, Part 11: *Additional specific safety requirements and test methods for spatial network*, and has been varied as indicated to take account of Australian conditions. The modifications are specified in Appendix ZZ.

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text 'this European Standard' should read 'this Australian Standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian Standard*	
EN		AS	
1176	Playground equipment and surfacing	4685	Playground equipment
1176-1	Part 1: General safety requirements and test methods	4685.1	Part 1: General safety requirements and test methods (EN 1176-1:2008, MOD)

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

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)

Documents
Document Sharing Hub

Full document details: AS 4685.11-2014

CONTENTS

1 Scope 4
2 Normative references 4
3 Terms and definitions 4
4 Safety requirements 5
4.1 Protection against falling in spatial network 5
4.2 Mesh size in 3-dimensional arranged planar nets 6
4.3 Protection against injuries in the falling space 7
4.4 Converging parts 8
5 Test reports 8
6 Marking 8

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)

Documents
Document Sharing Hub

Full document details: AS 4685.11-2014

AUSTRALIAN STANDARD

Playground equipment

Part 11:
Additional specific safety requirements and test methods for spatial networks (EN 1176-11:2008, MOD)

1 Scope

This document specifies additional safety requirements for spatial networks intended for permanent installation for use by children.

This standard is not applicable to artificial climbing structures, which are used for training for sports activities, e.g. alpinism.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1176-1:2008, *Playground equipment and surfacing — Part 1: General safety requirements and test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1176-1:2008 and the following apply.

3.1
spatial network
climbing equipment as geometric 3-dimensional assembly of flexible elements (e. g. ropes, chains, etc.), which by its design will yield

NOTE 1 See Figure 1 for examples.

NOTE 2 Because of the way in which climbing equipment is used (see EN 1176-1:2008, 3.2) if the user were to fall, this would be a vertical downward fall into the structure. Therefore, structural elements outside the net are not considered to be in the falling space.

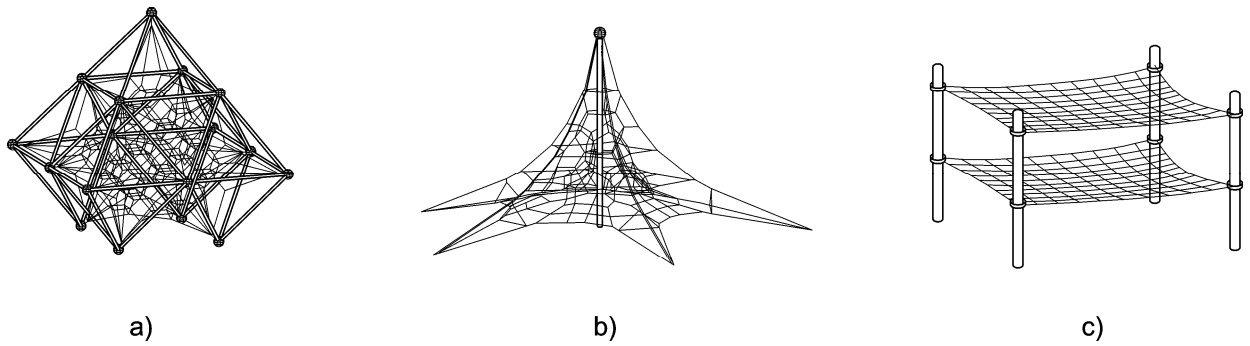

Figure 1 — Examples of spatial network

3.2
3-dimensional arranged planar nets
3-dimensional assembly of two or more planar nets one above the other

3.3
converging parts
any two linear elements, i.e. not flat surfaces, the distance between which diminishes along their length

© Standards Australia

Accessed by MONASH UNIVERSITY LIBRARY on 12 Jun 2015 (Document currency not guaranteed when printed)
Documents Document Sharing Hub
Full document details: AS 4685.11-2014