

AS/NZS ISO 7176.11:2013  
ISO 7176-11:2012

AS/NZS ISO 7176.11:2013

Australian/New Zealand Standard™

**Wheelchairs**

**Part 11: Test dummies**



## **AS/NZS ISO 7176.11:2013**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-067, Assistive Technology Products for Persons with Disability. It was approved on behalf of the Council of Standards Australia on 23 July 2013 and on behalf of the Council of Standards New Zealand on 5 August 2013. This Standard was published on 30 August 2013.

---

The following are represented on Committee ME-067:

Assistive Technology Suppliers Australia  
Association of Consultants in Access Australia  
Australian Rehabilitation on Assistive Technology  
Bus and Coach Association of New Zealand  
Consumer Federation Australia  
Department of Family and Communities (SA)  
Engineers Australia  
Independent Living Centres Australia  
Medical Aids Subsidy Scheme  
New Zealand Transport Agency  
Novita Children's Services  
Occupational Therapy Australia  
Physical Disability Australia  
Queensland Health  
Royal Perth Hospital  
TAD Australia  
The Commercial Vehicle Industry Association of Australia  
Therapeutic Goods Administration

---

### **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 Standards may also be withdrawn.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 ISO 7176.11.*

---

AS/NZS ISO 7176.11:2013

# Australian/New Zealand Standard™

## Wheelchairs

### Part 11: Test dummies

Originated in Australia as AS 3696.11—1993.  
Jointly revised and redesignated as AS/NZS ISO 7176.11:2013.

#### **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 978 1 74342 560 2

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-067, Assistive Technology Products for Persons with Disability, to supersede AS 3696.11—1993, *Wheelchairs*, Part 11: *Test dummies*.

The objective of this Standard is to specify requirements for test dummies of any mass greater than or equal to 25 kg, to be used in the evaluation of wheelchairs. This part of ISO 7176 provides formulae that specify the location of the overall centre of mass of test dummies, the masses of the segments that comprise the test dummies and the locations of pivots that connect the segments. It also specifies the characteristics of loading pads that support the segments.

This Standard is identical with, and has been reproduced from ISO 7176-11:2012, *Wheelchairs*, Part 11: *Test dummies*.

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

- (a) In the source text ‘this part of ISO 7176’ should read ‘this Australian/New Zealand 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:

<i>Reference to International Standard</i>	<i>Australian/New Zealand Standard</i>
ISO	AS/NZS ISO
7176 Wheelchairs	7176 Wheelchairs
7176-26 Part 26: Vocabulary	7176.26 Part 26: Vocabulary

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

## CONTENTS

<b>1</b>	<b>Scope</b>	<b>1</b>
<b>2</b>	<b>Normative references</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions</b>	<b>1</b>
<b>4</b>	<b>Symbols and abbreviated terms</b>	<b>3</b>
<b>5</b>	<b>Test equipment</b>	<b>3</b>
<b>6</b>	<b>Materials</b>	<b>6</b>
6.1	General	6
6.2	Rigid spacers	6
6.3	Foam cushions	6
<b>7</b>	<b>Specifications</b>	<b>6</b>
7.1	General	6
7.2	Location of pivots	7
7.3	Loading pads	8
7.4	Adjustment of location of overall centre of mass	12
7.5	Masses of segments	12
7.6	Locations of centres of mass	13
7.7	Test dummies intended for use in a standing position	14
7.8	Examples of test dummy construction	15
	<b>Annex A (normative) Measurement of location of overall centre of mass</b>	<b>17</b>
	<b>Annex B (informative) Nominal location of overall centre of mass</b>	<b>23</b>
	<b>Annex C (informative) Nominal masses and recommended CoM locations of segments</b>	<b>24</b>
	<b>Annex D (informative) Views of example test dummies</b>	<b>26</b>
	<b>Bibliography</b>	<b>29</b>

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
-