

AS 3696.8 (Int)—1991
ISO/DP 7176-8:1989
(Expires 9 December 1993)
Identical to ISO/DP 7176/8 :1989

* EXPIRY DATE
HAS BEEN
DELETED.
STANDARD NO
LONGER AVAILABLE
(TAS DECEMBER 1995)

Interim Australian Standard®

Wheelchairs

Part 8 (Int): Static, impact and fatigue strength tests

**(INTERIM STANDARDS)
EXTENSION**
AS 3696
Wheelchairs
AS 3696.8(Int)—1991
Static, impact and fatigue strength tests
The expiry date for this Interim Standard has been extended for two years to 9 December 1995. Technical Committee ME/67 is currently awaiting developments in an ISO project for these tests, before publishing the document as a full Australian Standard.



This Australian Standard was prepared by Committee ME/67, Mobility Appliances for People with Disabilities. It was approved on behalf of the Council of Standards Australia on 25 September 1991 and published on 9 December 1991.

The following interests are represented on Committee ME/67:

ACROD

Attorney-Generals Department
Australian Association of Occupational Therapists
Canberra College of Advanced Education
Commercial Vehicle Industry Association of Australia
Confederation of Australian Industry
Crippled Childrens Association of South Australia
Department of Health, New South Wales
Department of Health, Queensland
Department of the Premier and Cabinet, South Australia
Department of Veterans Affairs
Disability Advisory Council of Australia
Federal Chamber of Automotive Industries
Health Department, Victoria
Institution of Engineers, Australia
Metal Trades Industry Association of Australia
National Committee Independent Living Centres
Paraplegic and Quadriplegic Association of New South Wales
Paraplegic and Quadriplegic Association of Victoria
Royal North Shore Hospital
Royal Perth Hospital
Technical Aid to Disabled
University of Adelaide
University of Melbourne
WorkCover Authority, New South Wales

Additional interests participating in preparation of the Standard:

Paraplegic and Quadriplegic Association of South Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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First published as AS 3696.8 (Int)—1991.

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PREFACE

This Interim Australian Standard was prepared by the Standards Australia Committee for Mobility Appliances for People with Disabilities. It is identical with, and has been reproduced from, ISO/TC 123/SC 1/WG document 485 ISO/DP 7176-8:1989 revised and circulated in December 1990. Through its subcommittee for wheelchairs, and representation at ISO meetings, the committee has been closely involved in the preparation of the test methods and the minimum performance values set down in this document. Testing of these methods has been in operation for a considerable time, and the methods have reached a stage of development where their publication in an Interim Standard will enable user experience to be contributed towards the eventual adoption of the methods as an Australian Standard.

Because of the need for these test methods to be called up in a proposed Australian Standard for product requirements for wheelchairs, this document is released as an Interim Standard.

For the purposes of this Australian Standard, the ISO text should be modified as follows:

- (a) **Spelling** The word 'tire' wherever mentioned, should be replaced by 'tyre'. The word 'caster' should be replaced by 'castor'. The word 'center' should be replaced by 'centre'.
- (b) **Clause 9.1** Delete the clause and substitute:
'9.1 Any Class 3 condition as described in Appendix H.'
- (c) **Appendix H** Delete the heading and substitute:
'Annex H (Normative)
Classes of conditions following testing'.
- (d) **Annex N** Delete possible source and foam specification and substitute:
'Foam shall be 25 mm thick polyurethane foam. The 40 percent indentation force on deflection of the foam when tested in accordance with AS 2282.8 shall be in the range 350 to 450 N. The value of the apparent density of the foam when tested in accordance with AS 2282.3 shall be in the range 29 kg/m³ to 31.5 kg/m³.'
- (e) **Annex Q** Delete symbol g and definition, and substitute:
'g = gravitational constant = 9.807 m/s².'
- (f) **Reference** The references to other publications should be replaced by reference to Australian Standards as follows:

Reference to International Standard		Australian Standard	
ISO		AS	
6440	Wheelchairs—Nomenclature, terms and definitions	3693	Wheelchairs—Nomenclature, terms and definitions
7930	Wheelchairs—Type classification based on appearance characteristics	3694	Wheelchairs—Type classification based on appearance characteristics
845	Cellular plastics and rubbers—Determination of apparent (bulk) density	2282	Methods for testing flexible cellular polyurethane
		2282.3	Method 3: Determination of apparent density of flexible cellular polyurethane
2439	Polymeric materials, cellular flexible—Determination of hardness (indentation technique)	2282.8	Part 8: Deflection tests for flexible cellular polyurethane

Standards Australia invites comment on this Interim Standard from persons and organizations concerned with this subject. The date of expiry for comment is two years after publication at which time this Interim Australian Standard will either be confirmed, withdrawn or revised in the light of public comment.

During the life of this document the committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Australian Standard and should be regarded as a developmental Standard and liable to future alteration.

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REWORD

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75% approval by the member bodies voting.

International Standard ISO 7176-8 was prepared by Technical Committee ISO/TC 173, Technical systems and aids for disabled or handicapped persons.

The following annexes to this part of the standard are normative:

Annex A	Wheel alignment measurements
Annex B	Tolerances for wheel alignment measurements
Annex D	Direction of application of static test loads
Annex E	Recommended minimum performance values
Annex H	Classes of failure
Annex J	Obstacle and standard slat specification
Annex K	Handrim impact load, test apparatus and set up
Annex L	Testing checklist
Annex M	Standard loading mass
Annex N	Foam configuration for curb drop test
Annex P	Definition of Drop Height for Loaded Drop Impact Load Test

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