

Australian Standard[®]

Wheelchairs

**Part 5: Determination of overall
dimensions, mass and turning
space**

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 27 February 1989 and published on 12 May 1989.

The following interests are represented on Committee ME/67:

ACROD

Attorney-General's Department—Federal Bureau of Consumer Affairs

Australian Association of Occupational Therapists

Canberra College of Advanced Education

Commercial Vehicle Industry Association of Australia

Confederation of Australian Industry

Crippled Children's Association of South Australia

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Department of Industrial Relations and Employment, N.S.W.

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Federal Chamber of Automotive Industries

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Part 5: Determination of overall dimensions, mass and turning space

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PREFACE

This Standard was prepared by the Standards Australia Committee on Mobility Appliances for People with Disabilities. It is identical with and has been reproduced from ISO 7176/5—1986, *Wheelchairs—Part 5: Determination of overall dimensions, mass and turning space*.

This Standard is one of a proposed series of methods of test and measurement for wheelchairs.

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

- (a) *Clause 0 and Footnote*. Delete.
- (b) *Clause 1*. In line 1, delete 'part of ISO 7176' and substitute 'Standard'.
- (c) *Clause 2*. Delete 'ISO 7193, *Wheelchairs—Maximum overall dimensions*'.
- (d) *Clause 3*. Delete lines 1 and 2 and substitute 'For the purposes of this Standard, the definitions given in AS 3693 apply.'
- (e) The cross-references to other publications should be replaced by references to Australian Standards as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO 6440 Wheelchairs—Nomenclature, terms and definitions	AS 3693 Wheelchairs—Nomenclature, terms and definitions
ISO 7930 Wheelchairs—Type classification based on appearance characteristics	AS 3694 Wheelchairs—Type classification based on appearance characteristics

CONTENTS

	<i>Page</i>
1 SCOPE AND FIELD OF APPLICATION	3
2 REFERENCES	3
3 DEFINITIONS	3
4 TEST WHEELCHAIR	3
5 OVERALL DIMENSIONS	3
6 MASS	4
7 TURNING SPACE	4
8 TEST REPORT	4

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STANDARDS AUSTRALIA

Australian Standard**Wheelchairs****Part 5: Determination of overall dimensions, mass and turning space****0 Introduction**

ISO 7176 at present consists of the following parts:

Part 1: Determination of static stability.

Part 2: Determination of dynamic stability of electric wheelchairs.

Part 3: Determination of the efficiency of brakes.

Part 4: Determination of energy consumption of electric wheelchairs.

Part 5: Determination of overall dimensions, mass and turning space.

Part 6: Determination of maximum speed, acceleration and retardation for electric wheelchairs.

Part 7: Determination of seating dimensions — Definitions and measuring methods.

Part 8: Static, impact and fatigue strength for manual wheelchairs.

Part 9: Climatic tests for electric wheelchairs.

Part 10: Determination of the obstacle climbing ability of electric wheelchairs.

Part 11: Test dummies.

Part 12: Determination of tracking characteristics of manual wheelchairs.

Part 13: Determination of the coefficient of friction of test surfaces.

1 Scope and field of application

This part of ISO 7176 specifies methods for determining overall dimensions (both ready for occupation and folded), mass and minimum turning space of wheelchairs (manual and electric).

2 References

ISO 6440, *Wheelchairs — Nomenclature, terms and definitions*.

ISO 7193, *Wheelchairs — Maximum overall dimensions*.

ISO 7930, *Wheelchairs — Type classification based on appearance characteristics*.¹⁾

3 Definitions

For the purposes of this part of ISO 7176, the definitions given in ISO 6440 and ISO 7193 apply.

4 Test wheelchair

4.1 The wheelchair shall be fitted with all the accessories (e.g. headrest, backrest extension) supplied by the manufacturer and shall be ready for occupation, but unoccupied.

4.2 Wheelchairs for special purposes shall be measured according to the purposes specified.

4.3 If a wheelchair has a variable wheelbase design, the measurements shall be taken at both extremes.

5 Overall dimensions**5.1 Dimensions of wheelchair ready for occupation****5.1.1 Overall length including leg support and footrest**

Adjust the leg support/footrest so that the lowest point is 50 mm above the underlay and that the leg support is at an angle of 90° to the seat or the closest possible smaller angle.

1) At present at the stage of draft.