ISO 7176-5:2008-06 (E)

Wheelchairs - Part 5: Determination of dimensions, mass and manoeuvring space

Contents

Page

Foreword v

Introduction vii

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Wheelchair classes and occupant mass groups 22
4.1 General 22
4.2 Classes of electrically powered wheelchairs 22
4.3 Occupant mass groups 22

5 Test apparatus 22

6 Selection of the test wheelchair 26

7 Preparation of the test wheelchair 27
7.1 General 27
7.2 Wheelchair equipment 27
7.3 Wheelchair adjustment 27
7.4 Final check 32
7.5 Positioning 32
7.6 Loading of the wheelchair 32
7.7 Records 34
7.8 Use of hand space gauge and foot space gauges 34
7.9 Wheel rotation 34
7.10 Asymmetrical design of test wheelchair 35

8 Required measurements 35
8.1 General 35
8.2 Full overall length 36
8.3 Overall width 36
8.4 Handgrip height 36
8.5 Stowage length 36
8.6 Stowage width 37
8.7 Stowage height 37
8.8 Rising 37
8.9 Total mass 37
8.10 Mass of heaviest part 37
8.11 Pivot width 38
8.12 Reversing width 38
8.13 Turning diameter 38
8.14 Ground clearance 39
8.15 Required width of angled corridor 39
8.16 Required doorway entry depth 39
8.17 Required corridor width for side opening 39

9 Disclosure of information 41
9.1 General 41

9.2 Wheelchairs with handrims 41
9.3 Wheelchairs without handrims 41

10 Test report 42
10.1 Requirements 42
10.2 Recommendations 43

Annex A (informative) Technical dimensions 45

Annex B (informative) Pivot width and reversing width 59

Annex C (informative) Turning diameter 69

Annex D (informative) Wheelchair longitudinal axis and wheelchair centre-point 74

Annex E (informative) Guidelines and recommendations for wheelchair design and performance ... 75

Bibliography 79