

SLOVENSKI STANDARD kSIST prEN 12183:2009

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Manual wheelchairs - Requirements and test methods

Rollstühle mit Muskelkraftantrieb - Anforderungen und Prüfverfahren

Fauteuils roulants à propulsion manuelle - Exigences et méthodes d'essai

Ta slovenski standard je istoveten z: prEN 12183

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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Manual wheelchairs - Requirements and test methods

Fauteuils roulants à propulsion manuelle - Exigences et méthodes d'essai

Rollstühle mit Muskelkraftantrieb - Anforderungen und Prüfverfahren

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN 12183:2009) has been prepared by Technical Committee CEN/TC 293 "Assistive products for persons with disability", the secretariat of which is held by SIS.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 12183:2006.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of Council Directive 93/42/EEC of 14 June 1993 concerning medical devices, as amended by Directive 2007/47/EC.

For relationship(s) with the applicable EU Directive(s), see informative Annex ZA, which is an integral part of this document.

Informative Annex F provides details of significant technical changes between this European Standard and the previous editions of 1999 and 2006.

Introduction

This is the third edition of this European Standard which was originally issued in 1999. The second edition was published in 2006 but was withdrawn in 2007.

Where this European Standard does not apply to particular wheelchairs, contracting parties should consider whether appropriate parts of this European Standard can be used. Manufacturers might also wish to consider whether appropriate parts of this European Standard can be used to assess the performance of their products against the Essential Requirements of the Council Directive concerning medical devices 93/42/EEC of 14 June 1993, as amended by Directive 2007/47/EC.

This European Standard contains requirements for ergonomic design related to the ease of wheelchair operation. They are intended to be applicable to at least 80 % of adult users and are based upon:

- the body size of users within the range 5th percentile adult female to 95th percentile adult male,
- the abilities and restrictions of a 65-year-old 50th percentile female, and
- the wheelchair being equipped with operating devices which are not custom-made for individual users.

1 Scope

This European Standard specifies requirements and test methods for manual wheelchairs intended to carry one person of mass not greater than 100 kg.

It also specifies requirements and test methods for manual wheelchairs with electrically powered ancillary equipment.

This European Standard does not apply in total to:

- wheelchairs intended for special purposes, such as sports, showering or toileting;
- custom-made wheelchairs;
- stand-up wheelchairs; and
- add-on power kits for the propulsion of manual wheelchairs.

NOTE 1 The application of this standard is limited to wheelchairs with a maximum occupant mass of 100 kg because the maximum mass of dummy specified in ISO 7176-11:1992 is 100 kg. Annex A (informative) provides guidance for construction of dummies of mass 125 kg and 150 kg. At the time of publication, a new edition of ISO 7176-11 was under development, including test dummies with masses above 100 kg.

NOTE 2 Requirements for electrically powered wheelchairs are specified in EN 12184.

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 1021-1:2006, Furniture — Assessment of the ignitability of upholstered furniture — Part 1: Ignition source smouldering cigarette

EN 1021-2:2006, Furniture — Assessment of the ignitability of upholstered furniture — Part 2: Ignition source match flame equivalent

EN 12182, Technical aids for disabled persons — General requirements and test methods

EN 12184, Electrically powered wheelchairs, scooters and their chargers — Requirements and test methods

EN ISO 14971:2007, Medical devices — Application of risk management to medical devices (ISO 14971:2007)

ISO 7176-1:1999, Wheelchairs — Part 1: Determination of static stability

ISO 7176-3:2003, Wheelchairs — Part 3: Determination of effectiveness of brakes

ISO 7176-8:1998, Wheelchairs — Part 8: Requirements and test methods for static, impact and fatigue strengths

ISO 7176-11:1992, Wheelchairs — Part 11: Test dummies

ISO 7176-13:1989, Wheelchairs — Part 13: Determination of coefficient of friction of test surfaces