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BSI Standards Publication

Power operated pedestrian doorsets — Safety in use — Requirements and test methods

bsi.

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National foreword

This British Standard is the UK implementation of EN 16005:2023. It supersedes BS EN 16005:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/538/1, Windows and doors.

A list of organizations represented on this committee can be obtained on request to its committee manager.

The UK committee advises users to consult BS 7036-0:2014 *Power operated pedestrian doorsets – Safety in use – Part 0: Code of practice for risk assessment and risk reduction* when applying this standard.

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EUROPEAN STANDARD **EN 16005**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

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Supersedes EN 16005:2012

English Version

Power operated pedestrian doorsets - Safety in use - Requirements and test methods

Blocs-portes motorisés pour piétons - Sécurité d'utilisation - Exigences et méthodes d'essai

Kraftbetätigte Türen - Nutzungssicherheit - Anforderungen und Prüfverfahren

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European foreword

This document (EN 16005:2023) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2023, and conflicting national standards shall be withdrawn at the latest by June 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 16005:2012.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Compared with EN 16005:2012, the following changes have been made:

— scope revised;

— normative references updated;

— Clause 4 added; following clauses renumbered accordingly;

— Clause 5 (former Clause 4) revised;

— Clause 6 (former Clause 5) revised;

— Annex C revised;

— Annex J deleted;

— Annex ZA revised;

— Bibliography revised;

— various figures updated and revised;

— editorially revised.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Introduction

This document is a type C standard as stated in EN ISO 12100:2010.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

— machine manufacturers (small, medium and large enterprises);

— health and safety bodies (regulators, accident prevention organizations, market surveillance etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

— machine users/employers (small, medium and large enterprises);

— machine users/employees (e.g. trade unions, organizations for people with special needs);

— service providers, e.g. for maintenance (small, medium and large enterprises);

— consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the provisions of this type-C standard.

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1 Scope

This document specifies requirements regarding design and test methods for power operated pedestrian doorsets. Examples of how the doorset constructions may be operated include: electro-mechanically, electro-hydraulically, electro-magnetically or pneumatically.

This document covers safety in use of power operated pedestrian doorsets used for normal access as well as in emergency and escape routes and as fire resistance and/or smoke control doorsets.

The type of doorsets covered include power operated pedestrian sliding, swing and revolving doorsets, including balanced doorsets and folding doorsets with a horizontally moving door leaf.

This document deals with all significant hazards, hazardous situations and events relevant to power operated doorsets when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer.

All lifetime phases of the power operated pedestrian doorsets including transportation, assembly, dismantling, disabling and scrapping are considered by this document.

This document does not apply to:

— vertically moving doors;

— doors on lifts;

— doors on vehicles;

— power operated doors or gates mainly intended for vehicular traffic or access for goods;

— doors used in industrial processes;

— partition walls;

— doors outside the reach of people (such as crane gantry fences);

— turnstiles;

— platform doors;

— traffic barriers.

This document does not cover special functions of doorsets, such as security in banks, airports, etc. or fire and/or smoke compartmentation, where conformity of the specific function with requirements of the application is the preference.

This document does not deal with any specific requirements on noise emitted from power operated pedestrian doorsets as their noise emission is not considered to be a relevant hazard.

NOTE Noise emission of power operated pedestrian doorsets is not a significant hazard for the users of these products. It is a comfort aspect.

This document is not applicable to power operated pedestrian doorsets manufactured before the date of its publication.

This document does not cover operation in environments where there is a risk of explosion.