ÖNORM EN 16005

Edition: 2009-12-01

Powered pedestrian doors — Safety in use of power pedestrian doors — Requirements and test methods

Kraftbetätigte Türen — Nutzungssicherheit an kraftbetätigten Türen — Anforderungen und Prüfverfahren

Portes motorisées pour piétons — Utilisation sûre des portes motorisées pour piétons — Exigences et méthodes d'essai

Note:

Because of possible comments, the final version of this ÖNORM can differ from the present Draft.

Please send your comments (in writing) by **2010-01-15** to Austrian Standards Institute.

Publisher and printing

Austrian Standards Institute/ Österreichisches Normungsinstitut (ON) Heinestraße 38, 1020 Wien

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Tel.: +43 1 213 00-444 Fax: +43 1 213 00-818 ICS 91.190

Identical (IDT) with prEN 16005:2009-10

responsible Committee ON-K 227

Windows, doors, hardware and curtain walls

Explanations concerning Draft

The present Draft European Standard **EN 16005** has been submitted to CEN members for voting. In case of a positive result of the voting as required by CEN/CENELEC regulations, this Draft will be published as EN.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 16005

October 2009

ICS 91.190

English Version

Powered pedestrian doors - Safety in use of power pedestrian doors - Requirements and test methods

Portes motorisées pour piétons - Utilisation sûre des portes motorisées pour piétons - Exigences et méthodes d'essai

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 33.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (prEN 16005:2009) was prepared by CEN/TC 33, "Doors, windows, shutters, building hardware and curtain walling," the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

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 EU Directive(s).

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

This document is a supporting standard of the relevant product standard(s) for power operated pedestrian doors with or without fire resistance or smoke control characteristics.

Introduction

With the aim of clarifying the intentions of this European Standard and avoiding doubts when reading it, the following assumptions were made when producing it:

- a) doors and components without specific requirements are:
- designed in accordance with the usual engineering practice and calculation codes for intended use, including all failure modes;
- of sound mechanical and electrical construction:
- made of materials with adequate strength and of suitable quality;
- b) doors and components are kept in good repair and working order, so that the required characteristics remain during the economical working life despite wear;
- c) For doors built according to good practice and the requirements of this European Standard to be fully effective it is assumed that:
- consultation shall occur between the manufacturer and the purchaser concerning particular conditions for the
 - o use and places of use for the door related to health and safety;
 - place of use/installation to be adequately lit;
 - o place of use/installation to allow safe use of the door.

These assumptions do not restrict the need for adequate information for use in this European Standard

1 Scope

1.1 General

This Standard specifies requirements regarding design and test methods for external and internal power operated pedestrian doors. Such door constructions may be operated electro-mechanically, electro-hydraulically or pneumatically.

This Standard covers safety in use of power operated pedestrian doors used for normal access as well as in escape routes and as fire and smoke control doors

The type of doors covered include power operated pedestrian sliding, swing, hinged and revolving doors, including sliding / swing (balanced) doors and folding doors with a horizontally moving leaf.

This European Standard does not cover operation in environments where the electromagnetic disturbances are outside the range of those specified in EN 61000-6-3.

1.2 Exclusions

It does not apply to:

- vertically moving doors;
- doors on lifts;
- doors on vehicles;
- powered 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);
- barriers;
- turnstiles.
- platform doors

This standard does not cover special functions of doors, like security in banks, airports, etc. or fire compartment, where conformity of the specific function with requirements of the application shall have the precedence.

This European Standard does not cover the radio part of doors. If a radio operating device is used, the relevant ETSI standards should be applied in addition.

This European Standard does not contain any specific requirement regarding noise emitted by a door in relation with the Machinery Directive as it is not considered to be a significant hazard.

This European Standard is not applicable to power operated pedestrian doors manufactured before the date of publication of this document by CEN.

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

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 349 Safety of machinery - Minimum gaps to avoid crushing of parts of the human body

EN 982 Safety of machinery - Safety requirements for fluid power systems and their components - Hydraulics

EN 983 Safety of machinery - Safety requirements for fluid power systems and their components - Pneumatics

EN 1154 Building hardware - Controlled door closing devices - Requirements and test methods

EN 1760-1 Safety of machinery - Pressure sensitive protective devices - Part 1: General principles for the design and testing of pressure sensitive mats and pressure sensitive floors

EN 1760-2 Safety of machinery - Pressure sensitive protective devices - Part 2: General principles for the design and testing of pressure sensitive edges and pressure sensitive bars

EN 12100-1 Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology

EN 12433-1 Industrial, commercial and garage doors and gates - Terminology - Part 1: Types of doors

EN 12433-2 Industrial, commercial and garage doors and gates - Terminology - Part 2: Parts of doors

EN 12519 Windows and pedestrian doors - Terminology

EN 12978 Industrial, commercial and garage doors and gates - Safety devices for power operated doors and gates - Requirements and test methods

EN 13849-1 Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design

EN 13850 Safety of machinery - Emergency stop - Principles for design

EN 13857 Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs

EN 14600 Doorsets and openable windows with fire resisting and/or smoke control characteristics - Requirements and classification

EN 17025 General requirements for the competence of testing and calibration laboratories

EN 60335-2-103 Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows

EN 60529 Degrees of protection provided by enclosures (IP Code)

EN 61000-6-3 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments