Uksed ja avatavad aknad, millele esitatakse tulepüsivus- ja/või suitsu-tõkestusnõudeid. Nõuded ja liigitus

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

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14600:2007 sisaldab Euroopa standardi EN 14600:2005 ingliskeelset teksti.	This Estonian standard EVS-EN 14600:2007 consists of the English text of the European standard EN 14600:2005.
Standard on kinnitatud Eesti Standardikeskuse 29.09.2005 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 29.09.2005 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.08.2005.	Date of Availability of the European standard text 24.08.2005.
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Doorsets and openable windows with fire resisting and/or smoke control characteristics - Requirements and classification

Blocs-portes et fenêtres ouvrantes résistant au feu et/ou pare-fumées - Exigences et classification

Tore, Türen und zu öffnende Fenster mit Feuer- und/oder Rauchschutzeigenschaften - Anforderungen und Klassifizierung

This European Standard was approved by CEN on 25 May 2005.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Contents

Page

Foreword

This European Standard (EN 14600:2005) has been prepared by Technical Committee CEN/TC 033 “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 February 2006, and conflicting national standards shall be withdrawn at the latest by February 2006.

Annex E and F of this document provide information relating this document to other relevant European Standards, some of which are in the course of development.

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

Introduction

Fire resisting doorsets and openable windows are required to provide adequate protection to openings in fire resisting walls or partitions which are formed as doorways for the passage of people, goods or vehicles. Smoke control characteristics may be added to fire resisting doorsets or may be required as a sole characteristic for smoke control doorsets to provide smoke leakage protection to doorways in walls or partitions which are not required to be fire resisting.

Fire resisting doorsets and openable windows and smoke control doorsets can only provide their designed fire resistance or smoke control capability when they are in the closed position.

This European Standard identifies the requirements and methods of conformity necessary to demonstrate that a measured fire resistance or smoke control capability can be assumed to cover their designed working life. To that end, this document identifies operational requirements and test/inspection methods which are intended to demonstrate durability of self closing and operational capabilities combined with fire resistance and/or smoke control.

In order to ensure continued performance of the characteristics, there is a need for routine inspection and maintenance. See normative Annex C.

1 Scope

This European Standard identifies the particular requirements and classifications necessary to demonstrate the characteristics of fire resistance, smoke leakage control and self closing durability for pedestrian doorsets, industrial type doorsets and openable windows.

Requirements for performance characteristics for these products can be found in the appropriate product standards.

This document does not cover any component reliability or durability testing of mechanical heat detectors (e.g. fusible link devices).

The requirements relating to the use of alternative items of building hardware are provided.

NOTE 1 Fire resistance of doorsets and fire resistance of openable windows and smoke control of doorsets which differ from the original test specimen(s) are covered by the fields of direct and extended application relative to the result of test(s) to EN 1634-1 for fire resistance and EN 1634-3 for smoke control.

NOTE 2 Smoke venting windows designed to open in the event of fire are not covered by this standard.

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 179, *Building hardware – Emergency exit devices operated by a lever handle or push pad – Requirements and test methods*

EN 572-9:2004, *Glass in building – Basic soda lime silicate glass products – Part 9: Evaluation of conformity/Product standard*

EN 1096-4:2004, *Glass in building – Coated glass – Part 4: Evaluation of conformity/Product standard*

EN 1125, *Building hardware – Panic exit devices operated by a horizontal bar – Requirements and test methods*

EN 1154, *Building hardware – Controlled door closing devices – Requirements and test methods*

EN 1155, *Building hardware – Electrically powered hold-open devices for swing doors – Requirements and test methods*

EN 1158, *Building hardware – Door coordinator devices – Requirements and test methods*

EN 1191, *Windows and doors – Resistance to repeated opening and closing – Test method*

EN 1279-5:2001, *Glass in building – Insulating glass units – Part 5: Evaluation of conformity*

EN 1303, *Building hardware – Cylinders for locks – Requirements and test methods*

EN 1364-1, *Fire resistance tests for non-loadbearing elements – Part 1: Walls*

EN 1527, *Building hardware –Hardware for sliding doors and folding doors – Requirements and test methods*

EN 1634-1, *Fire resistance tests for door and shutter assemblies – Part 1: Fire doors and shutters*

prEN 1634-2, *Fire resistance tests for door and shutter assemblies – Part 2: Fire door hardware – Building hardware for fire resisting doorsets and openable windows*

EN 1634-3, *Fire resistance tests for door and shutter assemblies – Part 3: Smoke control doors and shutters*

EN 1748-1-2:2004, *Glass in building – Special basic products – Borosilicate glasses - Part 1-2: Evaluation of conformity/Product standard*

EN 1748-2-2:2004, *Glass in building – Special basic products – Glass ceramics - Part 2-2: Evaluation of conformity/Product standard*

EN 1863-2:2004, *Glass in building – Heat strengthened soda lime silicate glass – Part 2: Evaluation of conformity/Product standard*

EN 1906, *Building hardware – Lever handles and knob furniture – Requirements and test methods*

EN 1935, *Building hardware – Single-axis hinges – Requirements and test methods*

EN 12051, *Building hardware – Door and window bolts – Requirements and test methods*

EN 12150-2:2004, *Glass in building – Thermally toughened soda lime silicate safety glass – Part 2: Evaluation of conformity/Product standard*

EN 12209, *Building hardware – Locks and latches – Mechanically operated locks, latches and locking plates – Requirements and test methods*

EN 12337-2:2004, *Glass in building – Chemically strengthened soda lime silicate glass – Part 2: Evaluation of conformity/Product standard*

EN 12433-1:1999, *Industrial, commercial and garage doors and gates – Terminology – Part 1: Types of doors*

EN 12433-2:1999, *Industrial, commercial and garage doors and gates – Terminology – Part 2: Parts of doors*

EN 12453, *Industrial, commercial and garage doors and gates – Safety in use of power operated doors – Requirements*

EN 12519:2004, *Windows and pedestrian doors – Terminology*

EN 12605, *Industrial, commercial and garage doors and gates – Mechanical aspects – Test methods*

prEN 12650-2, *Building hardware – Powered pedestrian doors – Part 2: Safety at powered pedestrian doors*

EN 13024-2:2004, *Glass in building – Thermally toughened borosilicate safety glass – Part 2: Evaluation of conformity/Product standard*

EN 13501-2, *Fire classification of construction products and building elements – Part 2: Classification using data from fire resistance tests, excluding ventilation services*

prEN 13633, *Building hardware – Electrically controlled panic exit systems for use on escape routes – Requirements and test methods*

prEN 13637, *Building hardware – Electrically controlled emergency exit systems for use on escape routes – Requirements and test methods*

EN 14178-2:2004, *Glass in building – Basic alkaline earth silicate glass products – Part 2: Evaluation of conformity/Product standard*

EN 14179-2:2001, *Glass in building – Heat soaked thermally toughened soda lime silicate safety glass – Part 2: Evaluation of conformity/Product standard*

prEN 14321-2:2001, *Glass in building – Thermally toughened alkaline earth silicate safety glass – Part 2: Evaluation of conformity/Product standard*

EN 14449:2002, *Glass in building – Laminated glass and laminated safety glass – Evaluation of conformity/Product standard*

prEN 14637:2003, *Building hardware – Electrically controlled hold-open systems for fire/smoke door assemblies – Requirements, test methods, application and maintenance*

prEN 14846, *Building hardware – Locks and latches – Part 3: Electromechanically operated locks and striking plates – Requirements and test methods*

CEN/TS 54-14:2004, *Fire detection and fire alarm systems – Part 14 Guidelines for planning, design, installation, commissioning, use and maintenance*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 12433-1:1999, EN 12433-2:1999, EN 12519:2004, prEN 14637:2003 and the following apply.

3.1
closing device
device to be attached to a doorset or openable window which provides a return to the closed position

3.2
designed working life
period of time for which the complete assembly is designed to operate, when installed and maintained in accordance with the manufacturer's instructions

3.3
door co-ordinating device
mechanism which ensures the correct sequence of closing of double leaf single swing doorsets

3.4
fire resisting doorset
pedestrian doorset or industrial type doorset including any frame or guide, door leaf or leaves, rolling or folding curtain, etc., which is provided to give a fire resisting capability when used for the closing of permanent openings in fire resisting separating elements. This includes any side panels, vision panels or transom panels together with the door building hardware and any seals (whether provided for the purpose of fire resistance or smoke control or for other purposes such as draught or acoustics) which form the assembly

3.5
fitness for purpose
ability of a product, process or service to serve a defined purpose under specific conditions

3.6
friable material
material that changes in physical size under mechanical impact, acceleration, deceleration, in such a way that its performance for the intended use is considered to have changed in a negative manner (for example mineral wool without binders)

3.7
hold open device
element of the hold-open system that allows a self-closing fire/smoke control doorset or openable window to remain open at either a pre-set or chosen position until released

3.8
industrial type doorset
doorset of a type generally used for the passage of vehicles, but which may in some circumstances be used for pedestrian access in public locations such as retail or sporting venues

3.9
local heat detector
device installed local to the doorset which will activate at a defined temperature to release a door closing mechanism. Two types of local heat detectors are covered by this reference;