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NING NENDE SULUSTE TULEPÜSIVUSE JA
SUITSUPIDAVUSE KATSED. OSA 3: UKSE- JA
LUUGIKOMPLEKTIDE SUITSUPIDAVUSE KATSED**

**Fire resistance and smoke control tests for door and
shutter assemblies, openable windows and elements of
building hardware - Part 3: Smoke control test for door
and shutter assemblies**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN 1634-3:2004 sisaldab Euroopa standardi EN 1634-3:2004 ingliskeelset teksti.	This Estonian standard EVS-EN 1634-3:2004 consists of the English text of the European standard EN 1634-3:2004.
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English version

Fire resistance tests for door and shutter assemblies - Part 3: Smoke control doors and shutters

Essais de résistance au feu des portes et fermetures -
Partie 3: Portes et volets pare-fumées

Feuerwiderstandsprüfungen für Tür- und
Abschlusseinrichtungen - Teil 3: Rauchschutzabschlüsse

This European Standard was approved by CEN on 15 July 2004.

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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.

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Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions, symbols and designations	4
3.1 Terms and definitions	4
3.2 Symbols and designation	5
4 Test equipment	6
4.1 Test apparatus	6
4.2 Instrumentation	6
5 Test conditions	7
6 Test specimen	7
6.1 Size	7
6.2 Number	7
6.3 Design and construction	7
6.4 Verification	8
7 Installation of test specimen	8
8 Conditioning	8
8.1 Moisture content	8
8.2 Mechanical conditioning	8
9 Application of instrumentation	9
9.1 Thermocouples	9
9.2 Pressure	9
9.3 Air flow	9
10 Test procedure	9
10.1 Pre-test procedures	9
10.2 Air leakage test	10
10.3 Observations	12
11 Expression of results	12
11.1 Ambient temperature only test to satisfy S_a classification	12
11.2 Ambient together with medium temperature tests to satisfy S_m	13
12 Test report	14
13 Field of direct application of test results	14
13.1 General	14
13.2 Construction of assembly	15
13.3 Size and aspect ratio	16
13.4 Glazing	16
13.5 Hardware and fittings	16
13.6 Seals	16
Annex A (informative) Test principle	17
Annex B (informative) Test apparatus	18

Foreword

This document (EN 1634-3:2004) has been prepared by Technical Committee CEN/TC 127 "Fire Safety in Buildings", the secretariat of which is held by BSI.

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 April 2005, and conflicting national standards shall be withdrawn at the latest by April 2005.

This document has been prepared under mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the Construction Products Directive.

This document supersedes EN 1634-3:2001.

EN 1634 '*Fire resistance tests for door and shutter assemblies*' consists of the following:

Part 1: *Fire doors and shutters,*

Part 2: *Fire door hardware - Building hardware for fire resisting doorsets and operable windows (in course of preparation),*

Part 3: *Smoke control doors and shutters.*

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.

Caution

The attention of all persons concerned with managing and carrying out this test is drawn to the following. Mechanical and operation hazards may arise during the construction of the test elements or structures, their testing and disposal of test residues. An assessment of all potential hazards and risks to health should be made and safety precautions should be identified and provided. Written safety instructions should be issued. Appropriate training should be given to relevant personnel.

Laboratory personnel should ensure that they follow written safety instructions at all times.

1 Scope

This Part of EN 1634 specifies a method for determining the leakage of cold and warm smoke from one side of a door assembly to the other under the specified test conditions. The test can be applied to door and shutter assemblies of different types intended for purposes of controlling the passage of smoke in case of fire. This test can also be applied to lift landing doors and conveyor system doors and shutters. The principle of the test is explained briefly in annex A.

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 1363-1:1999, *Fire resistance tests — Part 1: General requirements*

EN 1634-1:2000, *Fire resistance tests for door and shutter assemblies — Part 1: Fire doors and shutters*

EN 13501-2:2003, *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*

prEN 14600, *Fire resisting and/or smoke control doorsets and operable windows - Requirements and classification*

EN ISO 13943:2000, *Fire safety — Vocabulary (ISO 13943:2000)*

3 Definitions, symbols and designations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1363-1:1999, EN 1634-1:2000 and EN ISO 13943:2000, together with the following, apply:

3.1.1

smoke control door

door assembly which has the function of restricting the passage of smoke, when in a closed position, to prescribed limits

3.1.2

ambient temperature

for the purpose of this standard ambient temperature is an air temperature of (20 ± 10) °C

3.1.3

medium temperature

for the purpose of this standard medium temperature is an air temperature of (200 ± 20) °C

3.1.4

smoke leakage Sa

ambient temperature smoke leakage classification as defined in 7.5.6.3.1 of EN 13501-2:2003