

Nederlandse norm

# NEN-EN 1634-1

(en)

Bepaling van de brandwerendheid en rookwerendheid van deuren, luiken en te openen ramen en hang- en sluitwerk - Deel 1:  
Beproeving van de brandwerendheid van deuren, luiken en te openen ramen

Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 1: Fire resistance tests for doors, shutters and openable windows

Vervangt NEN-EN 1634-1:2001;  
NEN-EN 1634-1:2001/C1:2007;  
NEN-EN 1634-1:2008 Ontw.

ICS 13.220.50; 91.060.50  
november 2008

Als Nederlandse norm is aanvaard:  
 - EN 1634-1:2008, IDT

Preview

Normcommissie 353 084 "Brandveiligheidsaspecten bouwproducten en bouwdelen"

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## Nederlands voorwoord

Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

<u>vermelde norm</u>	<u>Nederlandse norm</u>	<u>titel</u>
EN 1363-1	NEN-EN 1363-1	Bepaling van de brandwerendheid - Deel 1: Algemene eisen (en)
EN 1363-2	NEN-EN 1363-2	Bepaling van de brandwerendheid - Deel 2: Alternatieve en aanvullende procedures (en)
EN 12519:2004	NEN-EN 12519:2004	Ramen en deuren - Terminologie (en,fr,de)
EN 13501-2	NEN-EN 13501-2	Brandclassificatie van bouwproducten en bouwdelen - Deel 2: Classificatie op grond van resultaten van brandwerendheidsproeven, behalve voor ventilatiesystemen (en)
EN 14600	NEN-EN 14600	Deuren en beweegbare ramen met brandwerende en/of rookweerstandkenmerken - Eisen en classificatie (en)
prEN 15269:series	NEN-EN 15269:reeks	Uitbreiding geldigheidsgebied van resultaten van rookwerendheidsproeven voor deuren en luiken (en)
EN ISO 13943:2000	NEN-EN-ISO 13943:2000	Brandveiligheid - Woordenlijst (en,fr,de)

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Voorbeeld  
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English Version

**Fire resistance and smoke control tests for door, shutter and  
 openable window assemblies and elements of building hardware  
 - Part 1: Fire resistance tests for doors, shutters and openable  
 windows**

Essais de résistance au feu et d'étanchéité aux fumées des  
 portes, fermetures, fenêtres et éléments de quincailleries -  
 Partie 1 : Essais de résistance au feu des portes,  
 fermetures et fenêtres

Feuerwiderstandsprüfungen und Rauchschutzprüfungen für  
 Türen, Tore, Abschlüsse, Fenster und Baubeschläge - Teil  
 1: Feuerwiderstandsprüfungen für Türen, Tore, Abschlüsse  
 und Fenster

This European Standard was approved by CEN on 8 August 2008.

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**EN 1634-1:2008 (E)**

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Voorbereid  
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## Foreword

This document (EN 1634-1:2008) 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 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

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

This document supersedes EN 1634-1:2000.

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 89/106/EEC.

EN 1634 'Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware' of the following:

- Part 1: *Fire resistance tests for doors, shutters and openable windows*
- Part 2: *Fire resistance characterisation test for elements of building hardware (in course of preparation)*
- Part 3: *Smoke control test for door and shutter assemblies*

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

## Introduction

### Caution

The attention of all persons concerned with managing and carrying out this fire resistance test is drawn to the fact that fire testing may be hazardous and that there is a possibility that toxic and/or harmful smoke and gases may be evolved during the test. Mechanical and operational hazards may also 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 will need to be made and safety precautions will need to be identified and provided. Written safety instructions will need to be issued. Appropriate training will need to be given to relevant personnel. Laboratory personnel will need to ensure that they follow written safety instructions at all times.

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## 1 Scope

This Part of EN 1634 specifies a method for determining the fire resistance of doors, shutters and openable windows designed for installation within openings incorporated in vertical separating elements, such as:

- hinged or pivoted doors;
- horizontally sliding and vertically sliding doors including articulated sliding doors and sectional doors;
- sliding folding doors and shutters;
- tilting doors;
- rolling shutters;
- openable windows;
- openable fabric curtains.

This European Standard is used in conjunction with EN 1363-1.

Doors tested in accordance with this European Standard and classified in accordance with EN 13501-2 may be accepted for lift landing door applications as an alternative to EN 81-58. EN 81-58 represents a specific test for lift landing doors and results in an alternative classification which may not be suitable for some other purposes as defined in National Regulations.

The testing of fire dampers is covered by EN 1366-2.

The testing of closures for conveyor systems is covered by EN 1366-7.

Further requirements are described in the relevant product standard and in the supporting standard EN 14600.

This method may also be used to determine the fire resistance of non-loadbearing horizontally orientated doors, shutters and openable windows by analogy. However, these are not specifically addressed here and the field of direct application given in Clause 13 is not valid for such horizontally orientated products.

By prior agreement with the test sponsor additional information may be gained for individual elements of building hardware. Based on the observations recorded during the test, the results may be presented in a separate report.

## 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 1363-2, *Fire resistance tests — Part 2: Alternative and additional procedures*

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

**EN 1634-1:2008 (E)**

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

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

prEN 15269 (all parts), *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware*

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

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 1363-1:1999, EN 12519:2004, EN ISO 13943:2000 and the following apply.

**3.1****door or shutter assembly  
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, which includes any side panel(s), vision panel(s), flush over panel(s) and/or transom panel(s) together with the 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

**3.2****openable (for windows only)**

applying to windows with one or more moveable leaf or leaves including any side or over panel(s), perimeter frame and any elements of building hardware

**3.3****building hardware**

items such as hinges, handles, locks, exit devices, escutcheons, letter plates, kick plates, sliding gear, closing devices, electrical components, wiring, etc., which are, or can be, used in the doorset or openable window

**3.4****single action**

action of a door leaf of a (single or double leaf) doorset that opens in only one direction

**3.5****double action**

action of a door leaf of a (single or double leaf) doorset that opens in two directions

**3.6****floor**

upper surface of the horizontal element on which the doorset or openable window is mounted and which extends from the exposed face to the unexposed face of the assembly

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