

Fire resistance tests for non-loadbearing elements - Part 1: Walls

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1364-1:2000 sisaldab Euroopa standardi EN 1364-1:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.11.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1364-1:2000 consists of the English text of the European standard EN 1364-1:1999.</p> <p>This document is endorsed on 28.11.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This Part of EN 1364 specifies a method for the determining the fire resistance of non-loadbearing walls. This Standard is used in conjunction with prEN 1363-1</p>	<p>Scope: This Part of EN 1364 specifies a method for the determining the fire resistance of non-loadbearing walls. This Standard is used in conjunction with prEN 1363-1</p>
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Võtmesõnad: fire resistance, fire tests, leaktightness, partitions, preparation, structural members, testing conditions, thermal insulation

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English version

Fire resistance tests for non-loadbearing elements

Part 1: Walls

Essais de résistance au feu des éléments non porteurs – Partie 1: Murs

Feuerwiderstandsprüfungen für nichttragende Bauteile – Teil 1: Wände

This European Standard was approved by CEN on 1999-02-18.

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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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard 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 February 2000, and conflicting national standards shall be withdrawn at the latest by February 2000.

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

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

EN 1364 'Fire resistance tests for non-loadbearing elements' consists of the following

Part 1: Walls

Part 2: Ceilings.

Part 3: Curtain walls - full configuration (in course of preparation).

Part 4: Curtain walls - part configuration (in course of preparation).

Part 5: Semi-natural fire test for facades and curtain walls (in course of preparation)

Part 6: External wall systems (in course of preparation).

Introduction

The purpose of this test is to measure the ability of a representative specimen of a non-loadbearing wall to resist the spread of fire from one side to another.

It is applicable to non-loadbearing walls, with and without glazing, non-loadbearing walls consisting almost wholly of glazing and other non-loadbearing internal and external non-loadbearing walls.

It is not applicable to curtain walls (external non-loadbearing walls suspended in front of the floor slab) which are dealt with specifically in prEN 1364-3.

For external fire exposure to a non-loadbearing external wall, the external fire exposure curve given in EN 1363-2 is used.

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 shall be made and safety precautions shall be identified and provided. Written safety instructions shall be issued. Appropriate training shall be given to relevant personnel. Laboratory personnel shall ensure that they follow written safety instructions at all times.

1 Scope

This Part of EN 1364 specifies a method for determining the fire resistance of non-loadbearing walls.

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

It is applicable to internal non-loadbearing walls with and without glazing, non-loadbearing walls consisting almost wholly of glazing, (glazed non-loadbearing walls) and other non-loadbearing internal and external non-loadbearing walls with and without glazing.

The fire resistance of external non-loadbearing walls can be determined under internal or external exposure conditions. In the latter case the external fire exposure curve given in EN 1363-2 is used.

It is not applicable to:

- i) curtain walls (external non-loadbearing walls suspended in front of the floor slab) which are considered specifically in prEN 1364-3.
- ii) non-loadbearing walls containing door assemblies which shall be tested to EN 1634-1.

Specific requirements relating to the testing of glazing are given in annex A.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1363-1	Fire resistance tests Part 1: General requirements
EN 1363-2	Fire resistance tests Part 2: Alternative and additional procedures
prEN 1364-3	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walls - full configuration
EN 1634-1	Fire resistance tests for door and shutter assemblies - Part 1: Fire doors and shutters
prEN ISO 13943	Fire safety - Vocabulary (ISO/DIS 13943:1998)

3 Definitions

For the purposes of this Part of EN 1364, the definitions given in EN 1363-1 and prEN ISO 13943, together with the following, apply:

3.1 non-loadbearing wall: A wall designed not to be subject to any load other than its self-weight.

3.2 internal non-loadbearing wall: A wall, with or without glazing, which provides fire separation. It may be exposed separately to a fire from either side.

3.3 external non-loadbearing wall: A wall forming the external envelope of a building which may be exposed separately to an internal or an external fire.