Kandetarindite tulepüsivuse katsed. Osa 3: Talad

r loe Fire resistance tests for loadbearing elements - Part 3: **Beams**



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1365-3:2002 sisaldab Euroopa standardi EN 1365-3:1999 ingliskeelset teksti.

This Estonian standard EVS-EN 1365-3:2002 consists of the English text of the European standard EN 1365-3:1999.

Standard on kinnitatud Eesti Standardikeskuse 12.09.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

This standard is ratified with the order of Estonian Centre for Standardisation dated 12.09.2000 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 08.12.1999.

Date of Availability of the European standard text 08.12.1999.

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

ICS 13.220.50

Võtmesõnad: ettevalmistamine, katsetingimused, lekketihedus, soojaisolatsioon, tarindid, tulekatsed, tulepüsivus, vahelaed

Standardite reprodutseerimis- ja levitamisõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 1365-3

December 1999

ICS 13.220.50

English version

Fire resistance tests for loadbearing elements

Part 3: Beams

Essais de résistance au feu des éléments porteurs – Partie 3: Poutres Feuerwiderstandsprüfungen für tragende Bauteile – Teil 3: Balken

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

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Page 2 EN 1365-3 : 1999

Conte	nts	Page
Forewo	ord	3
Introdu	action	3
1	Scope	4
2	Normative references	4
3	Definitions, symbols and designations	4
4	Test equipment	4
5	Test conditions	5
6	Test specimen	5
7	Installation of test specimen	6
8	Conditioning	7
9	Application of instrumentation	7
10	Test procedure	8
11	Performance criteria	8
12	Test report	8
13	Performance criteria Test report Field of direct application of test results	8
Annex		
ANNE	9	
	X A (INFORMATIVE) General guidance on the test method	

2/5

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 June 2000, and conflicting national standards shall be withdrawn at the latest by June 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.

EN 1365 'Fire resistance tests for loadbearing elements' consists of the following

Part 1: Walls

Part 2: Floors and roofs

Part 3: Beams

Part 4: Columns

Part 5: Balconies (in course of preparation)

Part 6: Stairs and walkways (in course of preparation)

Introduction

Caution

The attention of all persons concerned with managing and carrying out this fire resistance test, EN1365-3 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 operation 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.

Page 4 EN 1365-3: 1999

1 Scope

This Part of EN 1365 specifies a method for determining the fire resistance of beams with or without applied fire protection systems and with or without cavities. This Standard is used in conjunction with EN1363-1.

Beams which are part of a floor construction are tested with the floor construction as described in EN 1365-2 and are subject to evaluation of integrity and insulation.

General guidance on this method of test is 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 test 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
EN 1365-2	Fire resistance tests for loadbearing elements - Part 2: Floors and roofs
prEN ISO 13943	Fire safety - Vocabulary (ISO/DIS 13943:1998)

3 Definitions, symbols and designations

3.1 Definitions

For the purposes of this Part of EN 1365, the definitions given in EN1363-1 and prEN ISO 13943, together with the following, apply:

3.1.1 supported construction: The actual floor or roof that will be supported by beams in the building.

3.2 Symbols and designations

Symbol	Unit	Designation		
L exp	mm	Length of test specimen exposed to heating		
L sup	mm	Length of test specimen between centres of supports (this is equivalent to 'L' in EN 1363-1)		
L spec	mm	Length of test specimen		
4 Test equipment				
The test equipment shall be as specified in EN 1363-1.				
		(/)		

4 Test equipment