

Extended application of results from fire resistance tests - Part 8: Beams

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15080-8:2009 sisaldab Euroopa standardi EN 15080-8:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.12.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 07.10.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 15080-8:2009 consists of the English text of the European standard EN 15080-8:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.12.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 07.10.2009.

The standard is available from Estonian standardisation organisation.

ICS 13.220.50, 91.060.99

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ICS 13.220.50; 91.060.99

English Version

Extended application of results from fire resistance tests - Part 8: Beams

Application étendue des résultats des essais de résistance
au feu - Partie 8 : Poutres

Erweiterter Anwendungsbereich der Ergebnisse aus
Feuerwiderstandsprüfungen - Teil 8: Balken

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Foreword

This document (EN 15080-8:2009) 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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.

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1 Scope

This part of EN 15080 identifies the parameters and factors that affect the fire resistance of beams and need to be taken into account when considering extended application of results of beams tested in accordance with EN 1365-3. It also gives the methodology to be used when preparing an extended application, including rules and calculation methods which can be applied to establish the resultant influence of a variation in one or more parameters and to determine the field of extended application.

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 338, *Structural timber — Strength classes*

EN 1194, *Timber structures — Glued laminated timber — Strength classes and determination of characteristic values*

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

EN 1365-3:1999, *Fire resistance tests for loadbearing elements — Part 3: Beams*

EN 10025-1, *Hot rolled products of structural steels — Part 1: General technical delivery conditions*

EN 10025-2, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10080-1, *Steel for the reinforcement of concrete — Weldable reinforcing steel — Part 1: General requirements*

prEN 10138-1, *Prestressing steels — Part 1: General requirements*

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

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 ISO 13943:2000, EN 1363-1:1999 and EN 1365-3:1999, together with the following apply.

3.1

test result

outcome of a testing process and its associated procedures detailed within EN 1365-3 (which may include some processing of the results from the testing of a number of specimens). A test result is expressed in terms of one or more fire performance parameter(s)

3.2

direct field of application of test results

outcome of a process (involving the application of defined rules) whereby a test result is deemed to be equally valid for variations in one or more of the product properties and/or intended end use application(s)

NOTE The direct field of application of test results are presented in EN 1365-3.