

Extended application of results from fire resistance tests - Part 12: Loadbearing masonry walls

This document is a preview generated by EVS

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15080-12:2011 sisaldab Euroopa standardi EN 15080-12:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 28.02.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 26.01.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 15080-12:2011 consists of the English text of the European standard EN 15080-12:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 28.02.2011 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 26.01.2011.

The standard is available from Estonian standardisation organisation.

ICS 13.220.50, 91.060.10

Standardite reprodutseerimis- ja levitamiseõigus 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.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: 605 5050; E-mail: info@evs.ee

ICS 13.220.50; 91.060.10

English Version

Extended application of results from fire resistance tests - Part 12: Loadbearing masonry walls

Application étendue des résultats des essais de résistance
au feu - Partie 12: Murs porteurs en maçonnerie

Erweiterter Anwendungsbereich der Ergebnisse aus
Feuerwiderstandsprüfungen - Teil 12: Tragende
Mauerwerkswände

This European Standard was approved by CEN on 11 December 2010.

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 CEN-CENELEC Management Centre or to any CEN member.

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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 General principles.....	5
4.1 General.....	5
4.2 Classifications.....	6
4.3 Necessary additional information	6
5 Rules for extended application	7
5.1 Units	7
5.2 Masonry mortars and joints.....	9
5.3 Plaster, rendering or external covering.....	9
5.4 Load Level	10
5.5 Geometrical parameters.....	10
6 Report of the extended application analysis	10
Annex A (informative) Examples of extended applications for loadbearing masonry walls.....	12
A.1 Basis for the Definition: Test report according to EN 1365-1 (add photo)	12
A.2 Material Properties from Report:.....	12
A.2.1 Units	12
A.2.2 Mortar	12
A.2.3 Plaster or rendering.....	12
A.3 Load	12
A.3.1 Centric application of the load	12
A.4 Test results:.....	13
A.5 Possible applications according to EN 15080-12	13
A.5.1 Units	13
A.5.2 Masonry mortar:.....	14
A.5.3 Plaster or rendering.....	14
A.5.4 Load level	14
A.5.5 Geometrical parameters.....	14
Annex B (informative) Recommendations for the installation	15
B.1 Connection systems for REI walls	15
B.2 Recesses and chases.....	15
Bibliography	16

Foreword

This document (EN 15080-12:2011) 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 July 2011, and conflicting national standards shall be withdrawn at the latest by July 2011.

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 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.

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, Croatia, 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 United Kingdom.

1 Scope

This European Standard provides guidance, and where appropriate defines procedures, for variations of certain parameters and factors associated with the design of internal and external loadbearing walls that have been tested in accordance with EN 1365-1.

Data from historic standard fire resistance tests may be used as supporting information.

Manufactured stone masonry units according to EN 771-5 and natural stone units according to EN 771-6 are not covered.

This European Standard is not valid for reinforced masonry.

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 771-1, *Specification for masonry units — Part 1: Clay masonry units*

EN 771-3, *Specification for masonry units — Part 3: Aggregate concrete masonry units (Dense and light-weight aggregates)*

EN 772-1, *Methods of test for masonry units — Part 1: Determination of compressive strength*

EN 772-16, *Methods of test for masonry units — Part 16: Determination of dimensions*

EN 998-1:2010, *Specification for mortar for masonry — Part 1: Rendering and plastering mortar*

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

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

EN 1365-1, *Fire resistance tests for loadbearing elements — Part 1: Walls*

EN 1996-1-1, *Eurocode 6 — Design of masonry structures — Part 1-1: General rules for reinforced and unreinforced masonry structures*

EN 1996-1-2:2005, *Eurocode 6 — Design of masonry structures — Part 1-2: General rules — Structural fire design*

EN 1996-2, *Eurocode 6 — Design of masonry structures — Part 2: Design considerations, selection of materials and execution of masonry*

EN 1996-3:2006, *Eurocode 6 — Design of masonry structures — Part 3: Simplified calculation methods for unreinforced masonry structures*

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