Irish Standard
I.S. EN 1052-2:2016&AC:2017

Methods of test for masonry - Part 2: Determination of flexural strength

I.S. EN 1052-2:2016&AC:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 1052-2:2016/AC:2017

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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National Foreword

I.S. EN 1052-2:2016&AC:2017 is the adopted Irish version of the European Document EN 1052-2:2016, Methods of test for masonry - Part 2: Determination of flexural strength

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1052-2:2016/AC

March 2017
Mars 2017
März 2017

ICS 91.080.30

English version
Version Française
Deutsche Fassung

Methods of test for masonry - Part 2: Determination of flexural strength

Méthodes d'essai de la maçonnerie - Partie 2: Détermination de la résistance à la flexion

Prüfverfahren für Mauerwerk - Teil 2: Bestimmung der Biegezugfestigkeit

This corrigendum becomes effective on 22 March 2017 for incorporation in the official English version of the EN.

Ce corrigendum prendra effet le 22 mars 2017 pour incorporation dans la version anglaise officielle de la EN.

Die Berichtigung tritt am 22. März 2017 zur Einarbeitung in die offizielle Englische Fassung der EN in Kraft.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No.:EN 1052-2:2016/AC:2017 E

1 Modifications to 4.2

Delete

"m is the mass of the sample (kg)"

After the definition for t_u include a new definition

"w is the weight of the sample (N)"

2 Modification to 8.1

Replace

"weigh the mass of each specimen to 0,1 kg"

with

"determine the weight of each specimen to the nearest 1 N"

3 Modification to 8.3

Replace

"h) if the testing is carried out horizontally the mass of each specimen to the nearest 0,1 kg"

with

"h) if the testing is carried out horizontally the weight of each specimen to the nearest 1 N"

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1052-2

March 2016

ICS 91.080.30

Supersedes EN 1052-2:1999

English Version

Methods of test for masonry - Part 2: Determination of flexural strength

Méthodes d'essai de la maçonnerie - Partie 2: Détermination de la résistance à la flexion

Prüfverfahren für Mauerwerk - Teil 2: Bestimmung der Biegezugfestigkeit

This European Standard was approved by CEN on 3 January 2016.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

This document consolidates EN 1052-2:2016 and the corrigendum EN 1052-2:2016/AC:2017.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 1052-2:2016) has been prepared by Technical Committee CEN/TC 125 “Masonry”, 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 September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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 1052-2:1999.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document includes the corrigendum EN 1052-2:2016/AC:2017 which corrects 4.2, 8.1 and 8.3.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European standard specifies a method for determining the flexural strength of small masonry specimens for the two principal axes of loading. Guidance is given on the preparation of the specimens, the conditioning required before testing, the testing machine, the method of test, the method of calculation and the contents of the test 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 772-1, *Methods of test for masonry units — Part 1: Determination of compressive strength*

EN 772-10, *Methods of test for masonry units — Part 10: Determination of moisture content of calcium silicate and autoclaved aerated concrete units*

EN 998-2, *Specification for mortar for masonry — Part 2: Masonry mortar*

EN 1015-3, *Methods of test for mortar for masonry — Part 3: Determination of consistence of fresh mortar (by flow table)*

EN 1015-7, *Methods of test for mortar for masonry — Part 7: Determination of air content of fresh mortar*

EN 1015-11, *Methods of test for mortar for masonary — Part 11: Determination of flexural and compressive strength of hardened mortar*

3 Principle

The flexural strength of masonry is derived from the strength of small specimens tested to destruction under four point loading. The maximum load achieved is recorded. The characteristic value, calculated from the maximum stresses achieved by the samples is considered to be the flexural strength of the masonry.

4 Terms, definitions and symbols

4.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

4.1.1
masonry
assemblage of masonry units laid in a specified pattern and jointed together with mortar

4.1.2
flexural strength of masonry
strength of masonry in pure bending assuming a linear stress distribution of internal stresses