



NSAI
Standards

Irish Standard
I.S. EN 771-1:2011

Specification for masonry units - Part 1: Clay masonry units

I.S. EN 771-1:2011

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

This Irish Standard is the national version of the European Standard EN 771-1 *Specification for masonry units – Part 1: Clay masonry units*. Guidance on the use of this standard has been incorporated into Annex C of S.R. 325:2013+A1:2014 *Recommendations for the use of masonry structures in Ireland to Eurocode 6*.

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

Compliance with an Irish Standard does not of itself confer immunity from legal obligations.

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English Version

Specification for masonry units - Part 1: Clay masonry units

Spécification pour éléments de maçonnerie - Partie 1:
Briques de terre cuite

Festlegungen für Mauersteine - Teil 1: Mauerziegel

This European Standard was approved by CEN on 3 March 2011.

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.



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Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Materials and manufacture	9
5 Requirements for clay masonry units	9
5.1 General	9
5.2 LD units	10
5.2.1 Dimensions and tolerances (LD units)	10
5.2.2 Configuration (LD units)	12
5.2.3 Density (LD units)	14
5.2.4 Compressive strength (LD units)	14
5.2.5 Thermal properties (LD units)	15
5.2.6 Durability (LD units)	15
5.2.7 Water absorption (LD units)	15
5.2.8 Active soluble salts content (LD units)	15
5.2.9 Moisture movement (LD units)	16
5.2.10 Reaction to fire (LD units)	16
5.2.11 Water vapour permeability (LD units)	16
5.2.12 Bond strength (LD units)	16
5.3 HD units	17
5.3.1 Dimensions and tolerances (HD units)	17
5.3.2 Configuration (HD units)	18
5.3.3 Density (HD units)	19
5.3.4 Compressive strength (HD units)	20
5.3.5 Thermal properties (HD units)	21
5.3.6 Durability (HD units)	21
5.3.7 Water absorption (HD units)	21
5.3.8 Initial rate of water absorption (HD units)	21
5.3.9 Active soluble salts content (HD units)	22
5.3.10 Moisture movement (HD units)	22
5.3.11 Reaction to fire (HD units)	22
5.3.12 Water vapour permeability (HD units)	22
5.3.13 Bond strength (HD units)	23
6 Description, designation and classification of clay masonry units	23
6.1 Description and designation	23
6.1.1 LD units	23
6.1.2 HD units	24
6.2 Classification	24
7 Marking	25
8 Evaluation of conformity	25
8.1 General	25
8.2 Initial type testing	25
8.3 Factory production control	26
8.3.1 General	26
8.3.2 Testing and measuring equipment	27
8.3.3 Production equipment	27
8.3.4 Raw materials	27
8.3.5 Production process	27

8.3.6	Finished product testing.....	27
8.3.7	Statistical techniques.....	27
8.3.8	Marking and stock control of products.....	27
8.3.9	Traceability.....	28
8.3.10	Nonconforming products	28
Annex A	(normative) Sampling for initial type testing and for independent testing of consignments	29
A.1	General	29
A.2	Sampling procedure.....	29
A.2.1	General	29
A.2.2	Random sampling	29
A.2.3	Representative sampling.....	29
A.2.4	Dividing the sample.....	30
A.2.5	Number of units required for testing.....	30
Annex B	(informative) Additional information	33
B.1	Use of clay masonry units	33
B.2	Durability	34
B.3	Freeze/thaw resistance	34
B.3.1	General	34
B.3.2	Masonry subjected to severe exposure.....	34
B.3.3	Masonry subjected to moderate exposure	35
B.3.4	Masonry subjected to passive exposure	35
B.4	Sulfate action on mortars and plasters.....	35
B.5	Efflorescence and staining.....	36
B.6	General guidance on the appearance of facing clay masonry units	36
Annex C	(informative) Guidelines for test frequencies for designing a FPC system to demonstrate conformity of finished products with the requirements of the standard and the declaration of the manufacturer	37
Annex ZA	(informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive	39
ZA.1	Scope and relevant characteristics	39
ZA.2	Procedure(s) for attestation of conformity of clay masonry units.....	42
ZA.2.1	System(s) of attestation of conformity.....	42
ZA.2.2	EC Certificate and Declaration of Conformity	43
ZA.3	CE marking and labelling.....	44
	Bibliography.....	49

Foreword

This document (EN 771-1:2011) 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 November 2011, and conflicting national standards shall be withdrawn at the latest by November 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 supersedes EN 771-1:2003.

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 EU Construction Products Directive (89/106/EEC)..

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard also takes into account the general rules for unreinforced and reinforced masonry in Eurocode 6.

EN 771, *Specification for masonry units* consists of:

- *Part 1: Clay masonry units*
- *Part 2: Calcium silicate masonry units*
- *Part 3: Aggregate concrete masonry units (Dense and light weight aggregates)*
- *Part 4: Autoclaved aerated concrete masonry units*
- *Part 5: Manufactured stone masonry units*
- *Part 6: Natural stone masonry units*

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 the United Kingdom.

1 Scope

This European Standard specifies the characteristics and performance requirements for masonry units manufactured from clay for use in masonry construction (e.g. facing and rendered masonry, loadbearing or non-loadbearing masonry structures, including internal linings and partitions, for building and civil engineering).

This European Standard is intended to apply to two groups of fired-clay masonry units:

- a) LD units (see 3.4 and 5.2) comprising:
 - 1) clay masonry units with a gross dry density of less than or equal to $1\,000\text{ kg/m}^3$ for use in protected masonry.
- b) HD units (see 3.5 and 5.3) comprising:
 - 1) all clay masonry units for use in unprotected masonry;
 - 2) clay masonry units with a gross dry density of greater than $1\,000\text{ kg/m}^3$ for use in protected masonry.

This European Standard includes those clay masonry units of an overall non-rectangular parallelepiped shape.

It defines the performance related to e.g. dimensional tolerances, strength, density measured according to the corresponding test methods contained in separate European Standards.

It provides for the evaluation of conformity of the product to this European Standard.

The marking requirement for products covered by this European Standard is included.

This European Standard does not specify standard sizes for clay masonry units, nor does it specify standard work dimensions, angles and radii of specially shaped clay masonry units. This document does not include method of measurement, tolerance and range requirements for dimensions, angles and radii characteristics of specially shaped clay masonry units.

This European Standard does not cover requirements for the following: units for paving, flue liners and storey height clay masonry units and clay masonry units with an incorporated thermal insulation material bonded to the faces of the unit susceptible to be exposed to fire. It does, however, include clay masonry units for external chimney 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 772-1, *Methods of test for masonry units — Part 1: Determination of compressive strength*

EN 772-3, *Methods of test for masonry units — Part 3: Determination of net volume and percentage of voids of clay masonry units by hydrostatic weighing*

EN 772-5, *Methods of test for masonry units — Part 5: Determination of the active soluble salts content of clay masonry units*

EN 772-7, *Methods of test for masonry units — Part 7: Determination of water absorption of clay masonry damp proof course units by boiling in water*

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