

Irish Standard I.S. EN 771-6:2011

Specification for masonry units - Part 6: Natural stone masonry units

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National Foreword

This Irish Standard is the national version of the European Standard EN 771-6 Specification for masonry units – Part 6: Natural stone 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.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Specification for masonry units - Part 6: Natural stone masonry units

Spécifications pour éléments de maçonnerie - Partie 6 : Eléments de maçonnerie en pierre naturelle Festlegungen für Mauersteine - Teil 6: Natursteine

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

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EN 771-6:2011 (E)

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Foreword

This document (EN 771-6:2011) 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of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.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 771-6:2005.

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 EN 1996-1-1.

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 of masonry units manufactured from natural stone the width of which is equal to or greater than 80 mm, for which the main intended uses are common, facing or exposed masonry units in loadbearing or non-loadbearing building and civil engineering applications These units are suitable for all forms of coursed or random masonry walling, including single leaf, cavity, partition, retaining and the external masonry to chimneys. They can provide fire protection, thermal insulation, sound insulation and sound absorption.

This European Standard includes natural stone masonry units of an overall non-rectangular parallelepiped shape, specially shaped and accessory units for internal and external application.

It defines the performance related to e.g. strength, petrographic description, density, porosity, dimensional accuracy, thermal conductivity, water absorption, and frost resistance and provides for the evaluation of conformity of the product to this European Standard. The marking requirements for products covered by this European Standard are also included.

This European Standard does not cover storey height panels, natural stone for paving, chimney flue linings nor units intended for use as damp proof course.

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 772-1:2011, Methods of test for masonry units — Part 1: Determination of compressive strength

EN 772-11, Methods of test for masonry units — Part 11: Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units

EN 772-16:2011, Methods of test for masonry units — Part 16: Determination of dimensions

EN 772-20, Methods of test for masonry units — Part 20: Determination of flatness of faces of aggregate concrete, manufactured stone and natural stone masonry units

EN 998-2:2010, Specification for mortar for masonry — Part 2: Masonry mortar

EN 1052-2, Methods of test for masonry — Part 2: Determination of flexural strength

EN 1052-3, Methods of test for masonry — Part 3: Determination of initial shear strength

EN 1745, Masonry and masonry products — Methods for determining thermal properties

EN 1936, Natural stone test methods — Determination of real density and apparent density, and of total and open porosity

EN 12371, Natural stone test methods — Determination of frost resistance

EN 12372, Natural stone test methods — Determination of flexural strength under concentrated load

EN 12407, Natural stone test methods — Petrographic examination

EN 12440, Natural stone — Denomination criteria



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