



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 772-14:2002

ICS 91.100.30

**METHODS OF TEST FOR MASONRY UNITS -
PART 14: DETERMINATION OF MOISTURE
MOVEMENT OF AGGREGATE CONCRETE
AND MANUFACTURED STONE MASONRY
UNITS**

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English version

Methods of test for masonry units - Part 14: Determination of moisture movement of aggregate concrete and manufactured stone masonry units

Méthode d'essai pour des éléments de maçonnerie - Partie:
14 détermination de la variation due à l'humidité des
éléments de maçonnerie en béton de granulats et en pierre
reconstituée

Prüfverfahren für Mauersteine - Teil 14: Bestimmung der
feuchtebedingten Formänderung von Mauersteinen aus
Beton und Betonwerksteinen

This European Standard was approved by CEN on 13 October 2001.

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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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This European Standard 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of an identical text or by endorsement, at the latest by May 2002, and conflicting national standards shall be withdrawn at the latest by March 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method of measuring the moisture movement of aggregate concrete and manufactured stone masonry units between two specified extreme moisture conditions.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

prEN 771-3, *Specification for masonry units - Part 3: Aggregate concrete masonry units (dense and lightweight aggregates)*.

prEN 771-5, *Specification for masonry units - Part 5: Manufactured stone masonry units*.

3 Principle

This test measures, on masonry units of the same concrete compositions and the same sampling:

- a) the expansion between the initial condition and after soaking in water for 4 days;
- b) the shrinkage between the initial condition and after drying for 21 days in a ventilated oven at 33 °C.

4 Symbols

l_{0i} is the initial distance between gauge location pads, (mm)

l_{1i} is the distance between gauge location pads after soaking, (mm)

l_{2i} is the distance between gauge location pads after drying, (mm)

$\Delta l_g/l$ is the mean moisture expansion coefficient, (mm/m)

$\Delta l_r/l$ is the mean drying shrinkage coefficient, (mm/m)

$\Delta l_c/l$ is the total movement coefficient, (mm/m)

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