

Concrete paving blocks — Requirements and test methods

The European Standard EN 1338:2003 has the status of a
British Standard

ICS 93.080.20

National foreword

This British Standard is the official English language version of EN 1338:2003, including Corrigendum May 2006.

EN 1338 is a candidate “harmonized” European Standard and fully takes into account the requirements of the European Commission mandates M/119, *Floorings*, and M/122, *Roof Coverings*, given under the EU Construction Products Directive (89/106/EEC), and intended to lead to CE marking. The date of applicability of EN 1338 as a harmonized European Standard, i.e. the date after which this standard may be used for CE marking purposes, is subject to an announcement in the *Official Journal of the European Communities*.

The Commission in consultation with the Member States have agreed a transition period for the co-existence of harmonized European Standards and their corresponding national standard(s). It is intended that this period will comprise a period, usually nine months, after the date of availability of the European Standard, during which any required changes to national regulations are to be made, followed by a further period, usually of 12 months, for the implementation of CE marking. At the end of this co-existence period, the national standard(s) will be withdrawn.

EN 1338 is the subject of transitional arrangements agreed under the Commission mandate. In the UK, the corresponding national standard is:

— BS 6717:2001, *Precast, unreinforced concrete paving blocks — Requirements and test methods*;

and based on this transition period of twenty-one months, BS 6717:2001 would be withdrawn in February 2005.

NOTE This date is approximate. Users of this standard should contact BSI Customer Services for confirmation of withdrawal.

The UK participation in the preparation of EN 1338:2003 was entrusted by Technical Committee B/507, Paving units, kerbs, screeds and in-situ floorings, to its Subcommittee, B/507/1, Paving units and kerbs — (precast concrete), which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Attention is drawn to National Annex NA (informative), which contains additional information and advice on the use of different performance classes for users in the UK.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 72, an inside back cover and a back cover.

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English version

Concrete paving blocks - Requirements and test methods

Pavés en béton - Prescriptions et méthodes d'essai

Pflastersteine aus Beton - Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 16 October 2002.

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 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 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.





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
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Foreword

This document (EN 1338:2003) has been prepared by Technical Committee CEN/TC 178 "Paving units and kerbs", 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 2003, and conflicting national standards shall be withdrawn at the latest by February 2005.

 This document has been prepared under Mandates M/119 and M/122 given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s). 

For the relationship with the Construction Products Directive see informative Annex ZA, which is an integral part of this document.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

No existing European Standard is superseded.

The annexes B, C, D, E, F, G, H, I and J are normative, the annexes A, K and ZA are informative.

1 Scope

This European Standard specifies materials, properties, requirements and test methods for unreinforced cement bound concrete paving blocks and complementary fittings. It is applicable to precast concrete paving blocks and complementary fittings for pedestrian use, vehicular use and roof coverings, e.g. footpaths, precincts, cycle tracks, car parks, roads, highways, industrial areas (including docks and harbours), aircraft pavements, bus stations, petrol filling stations.

In case of regular use of studded tyres additional requirements are sometimes needed.

This standard does not deal with the tactility or visibility of blocks nor with permeable blocks.

This standard provides for the product marking and the evaluation of conformity of the product to this European Standard.

2 Normative references



This European Standard incorporates by dated and undated references, 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).



EN 10083-2, *Quenched and tempered steels — Part 2: Technical delivery conditions for unalloyed quality steels*.

EN 13369, *Common rules for precast concrete products*.

EN ISO 4288, *Geometric product specification (GPS) - Surface texture: Profile method - Rules and procedures for the assessment of surface texture (ISO 4288:1996)*.

EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1: Test method*  (ISO 6506-1:2005). 

EN ISO 6506-2, *Metallic materials - Brinell hardness test - Part 2: Verification and calibration of testing machines*  (ISO 6506-2: 2005). 

EN ISO 6506-3, *Metallic materials - Brinell hardness test - Part 3: Calibration of reference blocks*  (ISO 6506-3: 2005). 

ISO 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*.

ISO 4662, *Rubber — Determination of rebound resilience of vulcanizates*.

ISO 7619, *Rubber — Determination of indentation hardness by means of pocket hardness meters*.

ISO 7873, *Control charts for arithmetic average with warning limits*.

ISO 7966, *Acceptance control charts*.

ISO 8486-1, *Bond abrasives — Determination and designation of grain size distribution — Macrogrits F4 to F220*.