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Gatsten av natursten för utomhusbruk – Krav och provningsmetoder

Setts of natural stone for external paving – Requirements and test methods

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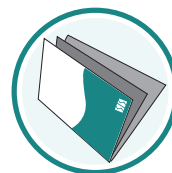
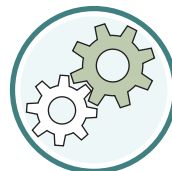
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Denna standard ersätter SS-EN 1342, utgåva 2.

The European Standard EN 1342:2012 has the status of a Swedish Standard. This document contains the official version of EN 1342:2012.

This standard supersedes the Swedish Standard SS-EN 1342, edition 2.

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EUROPEAN STANDARD

EN 1342

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2012

ICS 93.080.20

Supersedes EN 1342:2001

English Version

Setts of natural stone for external paving - Requirements and test methods

Pavés de pierre naturelle pour le pavage extérieur -
Exigences et méthodes d'essai

Pflastersteine aus Naturstein für Außenbereiche -
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 6 October 2012.

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.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1342:2012) 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 May 2013, and conflicting national standards shall be withdrawn at the latest by August 2014.

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 1342:2001.

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 Directive(s).

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

The following changes have been made in this new edition:

- a) Where possible the requirements refer to separate test methods prepared by CEN/TC 246, "Natural stones". The change was made to allow those placing the products on the market to use the same test results for a number of products.
- b) The values to be declared have been clarified and where applicable the declared values are now 'lower expected values'.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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 the performance requirements and the corresponding test methods for all natural stone setts used for external paving and road finishes.

External paving use includes all pavements typical of road works, such as pedestrian and trafficked areas, outdoor squares and similar to be used in an outdoor condition that are subject to the weathering agents, such as temperature changes, rain, ice, wind, etc.

This European Standard provides also for the evaluation of conformity and for marking of the natural stone setts.

This European Standard also covers characteristics that are of importance to the trade.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1926, *Natural stone test methods — Determination of uniaxial compressive strength*

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 12407, *Natural stone test methods — Petrographic examination*

EN 12440, *Natural stone — Denomination criteria*

EN 13373:2003, *Natural stone test methods — Determination of geometric characteristics on units*

EN 13755, *Natural stone test methods — Determination of water absorption at atmospheric pressure*

EN 14157, *Natural stone test methods — Determination of the abrasion resistance*

EN 14231, *Natural stone test methods — Determination of the slip resistance by means of the pendulum tester*

3 Terms and definitions

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

3.1

sett

unit of natural stone obtained by cutting or splitting used as a paving material, in which the working width does not exceed two times the thickness, and the length does not exceed two times the width

Note 1 to entry: The minimum working thickness is 40 mm.

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- 3.2**
work dimension
dimension of a sett specified for its manufacture to which the actual dimension should conform within specified permissible tolerances
- 3.3**
actual dimension
dimension of a sett as measured
- 3.4**
overall length
L
longer side of the rectangle with the smallest length able to enclose the sett
- 3.5**
overall width
W
shorter side of the rectangle with the smallest area able to enclose the sett
- 3.6**
thickness
T
distance between the upper face and the bedface of the sett
- 3.7**
upper face
surface of a sett intended to be seen when in use
- 3.8**
bed face
surface of a sett intended to be in contact with the bedding material when in use
- 3.9**
side face
surface of a sett intended to be vertical when in use
- 3.10**
textured
sett with a surface finish produced by secondary processing, from a saw or hewn surface
- 3.11**
fine textured
surface finish with a maximum difference of 1,0 mm between peaks and depressions (for example polished, honed or sawn with a diamond disc or blade)
- 3.12**
coarse textured
surface finish with more than 1,0 mm difference between peaks and depressions (for example dolly pointed, shot blasted or flame textured)
- 3.13**
hewn
sett with a rough surface finish, for example a riven or split face
- 3.14**
lower expected value
 E_L
value which corresponds to the 5 %-quantile of a logarithmic normal distribution for a confidence level of 75 %

3.15

higher expected value

E_H

value which corresponds to the 95 %-quantile of a logarithmic normal distribution for a confidence level of 75 %

4 Requirements

4.1 General

4.1.1 Denomination

The denomination shall always be declared in accordance with EN 12440 (meaning traditional name, petrological family, typical colour and place of origin as precisely as possible for example geo coordinates).

4.1.2 Alteration of physical properties of the natural stone

If during production the natural stone setts have been subjected to a treatment process that physically alters the properties of the stone (for example chemical treatment, patching, or filling or other similar products for natural holes, faults or cracks) then the use of such a treatment shall be stated.

In addition, specimens for testing shall be representative of the product and any processes that the stone is subjected to.

4.2 Dimensions

4.2.1 General

The work dimensions of the setts shall be declared.

Dimensions between faces shall be stated as a unitary nominal dimension or as a range of nominal minimum-maximum dimensions, e.g. (100 - 200) mm.

Dimensions of each shall be measured in accordance with EN 13373.

4.2.2 Tolerances

4.2.2.1 Plan dimensions and thickness

Plan dimensions and thickness of a sett shall be measured in accordance with EN 13373:2003, 5.2 and 5.3 and the deviations from the declared plan dimensions and thickness shall conform to tolerances given in Table 1.

Different deviations may be declared for plan dimensions and thickness.

Unless stated otherwise, a consignment of setts shall be intended to be laid in rectilinear patterns and all setts within a consignment, when measured in accordance with EN 13373:2003, 5.4, shall conform with the tolerances from the plan and thickness dimensions described in Table 1.