



SLOVENSKI STANDARD

SIST EN 772-20:2000

01-september-2000

Metode preskušanja zidakov - 20. del: Ugotavljanje ravnosti površin betonskih zidakov ter zidakov iz umetnega in naravnega kamna

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

Prüfverfahren für Mauersteine - Teil 20: Bestimmung der Ebenheit von Mauersteinen aus Beton, Betonwerksteinen und Natursteinen

Méthodes d'essai des éléments de maçonnerie - Partie 20: Détermination de la planéité des éléments de maçonnerie en béton de granulats, en pierre naturelle et en pierre reconstituée

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Ta slovenski standard je istoveten z: EN 772-20:2000

ICS:

91.100.15	Mineralni materiali in izdelki	Mineral materials and products
91.100.30	Beton in betonski izdelki	Concrete and concrete products

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 772-20

March 2000

ICS 91.100.15; 91.100.30

English version

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

Méthodes d'essai des éléments de maçonnerie - Partie 20:
Détermination de la planéité des éléments de maçonnerie
en béton de granulats, en pierre naturelle et en pierre
reconstituée

Prüfverfahren für Mauersteine - Teil 20: Bestimmung der
Ebeneheit von Mauersteinen aus Beton, Betonwerksteinen
und Natursteinen

This European Standard was approved by CEN on 17 February 2000.

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 Central Secretariat 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 Central Secretariat 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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 September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

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.

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1 Scope

This European Standard specifies a method for determining the flatness of faces of aggregate concrete, manufactured stone and natural stone masonry units.

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.

- prEN 771-3 Specification for masonry units - Part 3 : Aggregate concrete masonry units (dense and light-weight aggregates)
- prEN 771-5 Specification for masonry units - Part 5 : Manufactured stone masonry units
- prEN 771-6 Specification for masonry units - Part 6 : Natural stone masonry units

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3 Apparatus

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3.1 Graduated straight edge which is longer than the diagonals of the long faces of the unit being tested.

3.2 Set of feeler gauges capable of measuring with an accuracy to 0,05 mm.

4 Preparation of specimens

4.1 Sampling

The method of sampling shall be stated in the test report. The minimum number of specimens shall be six, but a larger minimum number may be specified in the product specification, in which case that larger number shall be used.

4.2 Surface treatment

Remove any superfluous material adhering to the unit as a result of the manufacturing process before measuring.

5 Procedure

Ensure that the masonry unit is positioned in a stable manner prior to measurement. For each face specified as flat measure the length of the two diagonals with the graduated straight edge (3.1) to the nearest 0,5 mm. Place the straight edge across each diagonal in turn and use the feeler gauge (3.2) to measure the distance from the face of the masonry unit to the straight edge. Where the face of the masonry unit is concave measure the greatest distance from the face of the straight edge to the nearest 0,05 mm. Where the face of the masonry unit is convex place the straight edge on it such that the greatest distances to the face on either side of the point of contact are approximately equal. Measure them both to the nearest 0,05 mm.

6 Calculation and expression of results

6.1 Calculation of results

Calculate the mean length of the diagonal. In the case of concave faces calculate the mean deviation from flatness as the mean of the maximum distances of the face of the masonry unit from the straight edge on each diagonal. In the case of convex faces calculate the mean of the maximum distances of the face of the masonry unit from the straight edge for each diagonal and then calculate the mean deviation from flatness as the mean of these two results.

6.2 Expression of results

Express the mean length of the diagonal to the nearest mm. Express the mean maximum deviation from flatness to the nearest 0,1 mm.

7 Test report

The test report shall contain the following information:

- a) the number, title and date of issue of this European Standard;
- b) the name of the organisation that carried out the sampling and the method used ;
- c) the date of testing;
- d) the type, origin and designation of the masonry unit by reference to **prEN 771-3**, **prEN 771-5** or **prEN 771-6**;
- e) the number of specimens in the sample;
- f) the date of receipt of the specimens in the testing laboratory;

- g) the length of the individual diagonals of each face and the mean length of the diagonals to the nearest millimetre;
- h) the maximum distance from the face of the masonry unit to the straight edge for each diagonal and the mean deviation to the nearest 0,1 mm;
- i) whether the face of the masonry unit is concave or convex or any other configuration ;
- j) remarks, if any.

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