



**SLOVENSKI STANDARD**  
**SIST EN 15388:2020**

**01-maj-2020**

**Nadomešča:**  
**SIST EN 15388:2008**

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**Aglomeriran kamen - Plošče, kopalniški elementi in kuhinjski pulti, izdelani po meri**

Agglomerated stone - Slabs and cut-to-size products for vanity and kitchen tops

Künstlich hergestellter Stein - Platten und auf Maß geschnittene Produkte für Sanitärbereichs- und Küchenarbeitsflächen

Pierre reconstituée - Plaques et produits coupés sur mesure pour tables de toilette et plans de travail de cuisine

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**Ta slovenski standard je istoveten z: EN 15388:2020**

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**ICS:**

91.100.15      Mineralni materiali in izdelki      Mineral materials and products

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EUROPEAN STANDARD

EN 15388

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 91.100.15

Supersedes EN 15388:2008

English Version

## Agglomerated stone - Slabs and cut-to-size products for vanity and kitchen tops

Pierre agglomérée - Dalles et produits coupés sur mesure pour tables de toilette et plans de travail de cuisine

Künstlich hergestellter Stein - Platten und auf Maß geschnittene Produkte für Sanitärbereichs- und Küchenarbeitsflächen

This European Standard was approved by CEN on 6 January 2020.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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## European foreword

This document (EN 15388:2020) has been prepared by Technical Committee CEN/TC 246 “Natural stones”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15388:2008.

This document is one of a series of standards for specifications of agglomerated stone products which includes the following:

- EN 15285, *Agglomerated stone — Modular tiles for flooring and stairs (internal and external)*,
- EN 15286, *Agglomerated stone — Slabs and tiles for wall finishes (internal and external)*.

The significant changes between this document and the previous edition are listed below:

- addition of the note to Clause 1;
- updating of Clauses 2, 5.3, 6;
- deletion of old Clause 7;
- updating of Tables 1 and 2;
- updating of Annex A.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 15388:2020 (E)****1 Scope**

This document specifies requirements and appropriate test methods for slabs and cut-to-size products of agglomerated stone which are made for use as vanity and kitchen tops, or other similar use in furnishing (e.g. splash zone).

NOTE “Agglomerated stones” are commercially termed “engineered-stones”.

This document does not cover secondary operations including site installation.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 13373, *Natural stone test methods - Determination of geometric characteristics on units*

EN 13501-1, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

EN 14617-1, *Agglomerated stone - Test methods - Part 1: Determination of apparent density and water absorption*

EN 14617-2, *Agglomerated stone - Test methods - Part 2: Determination of flexural strength (bending)*

EN 14617-6, *Agglomerated stone - Test methods - Part 6: Determination of thermal shock resistance*

EN 14617-9, *Agglomerated stone - Test methods - Part 9: Determination of impact resistance*

EN 14617-10, *Agglomerated stone - Test methods - Part 10: Determination of chemical resistance*

EN 14617-11, *Agglomerated stone - Test methods - Part 11: Determination of linear thermal expansion coefficient*

EN 14617-16, *Agglomerated stone - Test methods - Part 16: Determination of dimensions, geometric characteristics and surface quality of modular tiles*

EN 14618, *Agglomerated stone - Terminology and classification*

EN ISO 11664-2, *Colorimetry - Part 2: CIE standard illuminants (ISO 11664-2)*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14618 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

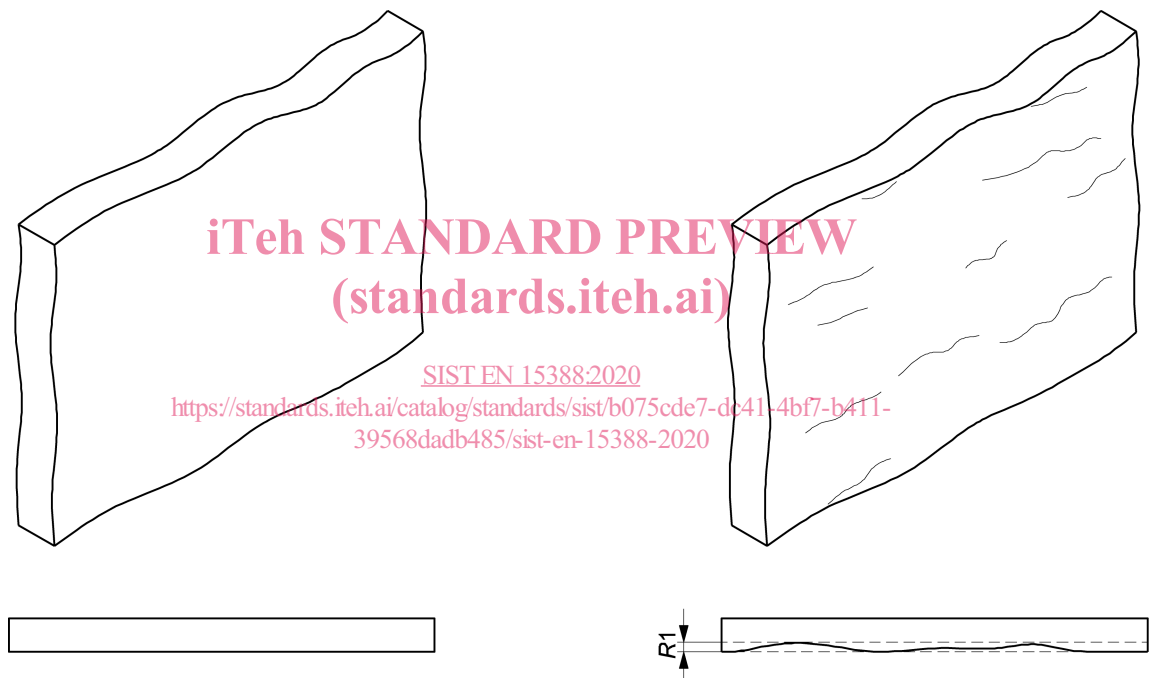
- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### rough slab

semi-finished agglomerated stone product with edges obtained either by sawing from a block or by moulding, the size of which is given by nominal dimensions (length - width - thickness, in this order), expressed in millimetres and the surface of which may or may not be the finished surface

Note 1 to entry: Examples are given in Figure 1.



##### Key

*R1* surface roughness

**Figure 1 — Examples of rough slabs**

#### 3.2

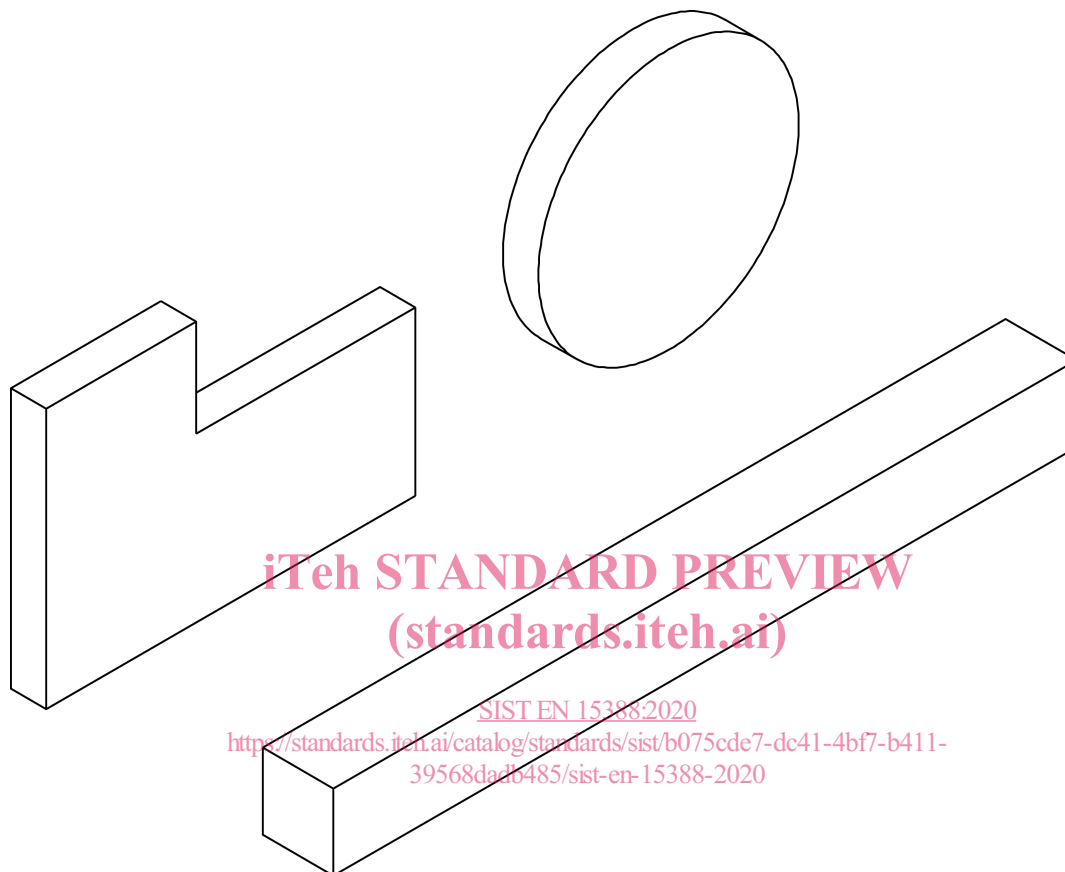
##### slab

finished agglomerated product obtained from rough slabs, the dimensions of which are given by length - width - thickness (in this order), expressed in millimetres according to defined tolerances and the surface of which is a finished surface ready to use

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**3.3 cut-to-size product**  
finished agglomerated product obtained from a rough slab or a slab, the dimensions of which need to be referred to in a template or a drawing

Note 1 to entry: Examples are given in Figure 2.



**Figure 2 — Examples of cut-to-size products**

## 4 Requirements

### 4.1 Geometric characteristics

#### 4.1.1 Dimensions

The dimensions (length  $l$ , width  $b$  and thickness  $d$ , in this order, expressed in millimetres) of a slab and a cut-to-size product may be declared by the manufacturer.

The dimensions of cut-to-size products shall be referred to a template or a drawing.

#### 4.1.2 Tolerances for dimensions for slabs and cut-to-size products

Tolerances in dimensions of slabs and cut-to-size products shall be as given in Table 1. The dimensions (i.e. length, width and thickness) of slabs and cut-to-size products shall be determined according to EN 13373.

Stricter deviations may be declared by the manufacturer.



Table 1 — Tolerances in dimensions for slabs and cut-to-size products

Characteristics	Tolerances on dimensions of	
	slabs	cut-to-size products
Length ( <i>l</i> ) and width ( <i>b</i> )	> 1 000 mm - 20 mm/+10 mm	±1,0 mm
Other dimensions with reference to the template	-	±1,0 mm
Thickness ( <i>d</i> )	±1,2 mm	
Squareness	±0,2 % <sup>a</sup>	
Flatness: – centre curvature – edge curvature – warping	±0,2 %	
<sup>a</sup> Percentage is calculated on the diagonals.		

## 4.2 Requirements for surface finish

### 4.2.1 General

Surface finishes shall extend uniformly to the edges of slabs and cut-to-size products. The uniformity shall be guaranteed on at least 90 % of the total surface of the element.

Surfaces of slabs and cut-to-size products shall have a regular appearance as a result of the finishing process and may be worked to meet the finish declared.

Stricter values may be declared by the manufacturer.

### 4.2.2 Requirements for surfaces after surface finishing

Surfaces shall have a regular appearance as a function of the finishing process and shall be worked to meet the finish declared (e.g. by submission of samples beforehand between the purchaser and supplier).

The surface roughness of the visible face can be directly obtained by moulding and to present an aspect structured with relief.

EXAMPLE Examples of the surface finishes are:

- sandblasted surfaces (obtained for example by means of a sandblasting action),
- fine ground surfaces (obtained for example by means of a grinding disk of grain size F 200),
- honed finished surfaces (obtained for example by means of a polishing disk with grain size F 400),
- highly polished surfaces (obtained for example by means of a polishing disk or felt),
- structured aspect (obtained by catch of print or artistic creation).

If other types of surface finishes are used, these shall be declared by the manufacturer.