SLOVENSKI STANDARD
SIST EN 13310:2015+A1:2018

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Nadomešča:
SIST EN 13310:2015

Kuhinjska korita - Funkcionalne zahteve in preskusne metode

Kitchen sinks - Functional requirements and test methods

Küchenspülen - Funktionsanforderungen und Prüfverfahren

Éviers de cuisine - Prescriptions fonctionnelles et méthodes d'essai

Ta slovenski standard je istoveten z: **EN 13310:2015+A1:2018**

ICS:

97.040.10	Kuhinjsko pohištvo	Kitchen furniture

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EUROPEAN STANDARD

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EN 13310:2015+A1

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English Version

Kitchen sinks - Functional requirements and test methods

Éviers de cuisine - Prescriptions fonctionnelles et méthodes d'essai

Küchenspülen - Funktionsanforderungen und Prüfverfahren

This European Standard was approved by CEN on 5 June 2015 and includes Amendment 1 approved by CEN on 14 April 2018.

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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 13310:2015+A1:2018) has been prepared by Technical Committee CEN/TC 163 “Sanitary appliances”, 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of an identical text or by endorsement, at the latest by April 2019 and conflicting national standards shall be withdrawn at the latest by July 2020.

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 includes Amendment 1 approved by CEN on 14 April 2018.

This document supersedes A1 EN 13310:2015 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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

A1 The main changes introduced in EN 13310 were the following:

a) introduction of a new Annex ZA in accordance with the latest template (in the format of TF N 678 rev 1 of 2015-06-02);

b) modification in the test procedure for resistance to scratching;

c) modification of the marking of products;

d) editorial modifications as agreed between representatives of EU/DG Growth, CEN/TC 163 and FECS on 2016-07-07 in Brussels for citation of standard in OJEU. A1

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the functional [A1] characteristics [A1] of and test methods for kitchen sinks for domestic purposes, which ensure that the product, when installed in accordance with the manufacturers' instructions, gives satisfactory performance.

NOTE 1 For the purposes of this standard, the term "domestic purposes" includes use in hotels, accommodation for students, hospitals and similar buildings.

This document does not specify aesthetic [A1] characteristics [A1] and the overall dimensions of kitchen sinks.

It does not apply to industrial kitchen sinks.

NOTE 2 All drawings are examples only; other forms are permissible.

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 695, *Kitchen sinks — Connecting dimensions*

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

ISO 4211-3, *Furniture — Tests for surface finishes — Part 3: Assessment of resistance to dry heat*

ISO 9352, *Plastics — Determination of resistance to wear by abrasive wheels*

3 Terms and definitions

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

3.1
kitchen sink
bowl or group of bowls with (a) waste hole(s) and, if applicable, tap hole(s) and overflow(s), with or without draining areas, standing alone, integrated with, or assembled with a worktop or assembled into a purpose-built kitchen, intended for the preparation of foodstuffs, the washing of dishes and the discharge of domestic waste water

3.1.1
wall-hung sink
sink which is fixed directly to the wall without a base unit

Note 1 to entry: See Figure 1:

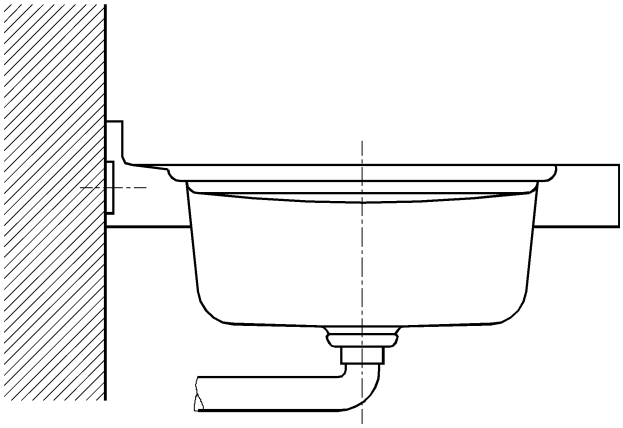

Figure 1 — Wall-hung sink

3.1.2
sit-on sink
sink which is mounted on top of a suitable base unit

Note 1 to entry: See Figure 2:

Figure 2 — Sit-on sink

3.1.3
inset sink
sink which is set into a kitchen work top from above, with the rim resting on the work top

Note 1 to entry: See Figure 3:

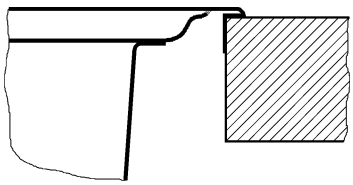

Figure 3 — Inset sink

3.1.4
flush-sit sink
sink which is set into a kitchen work top with the rim flush with, or within the thickness of the work top

Note 1 to entry: See Figure 4:

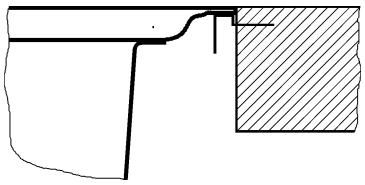

Figure 4 — flush-sit sink

3.1.5
under-mounted sink
sink which is set into a kitchen work top from below, butting up against the work top

Note 1 to entry: See Figure 5:

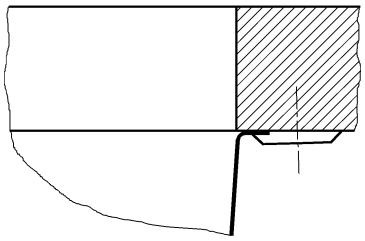

Figure 5 — Under-mounted sink

3.2
multi-layer kitchen sink
kitchen sink consisting of two or more layers

3.3
overflow
device which prevents water from spilling over the external rim of the kitchen sink or work top

3.4
outside dimensions
overall dimensions *L*, *B* and *H* of the kitchen sink

Note 1 to entry: See Figure 6:

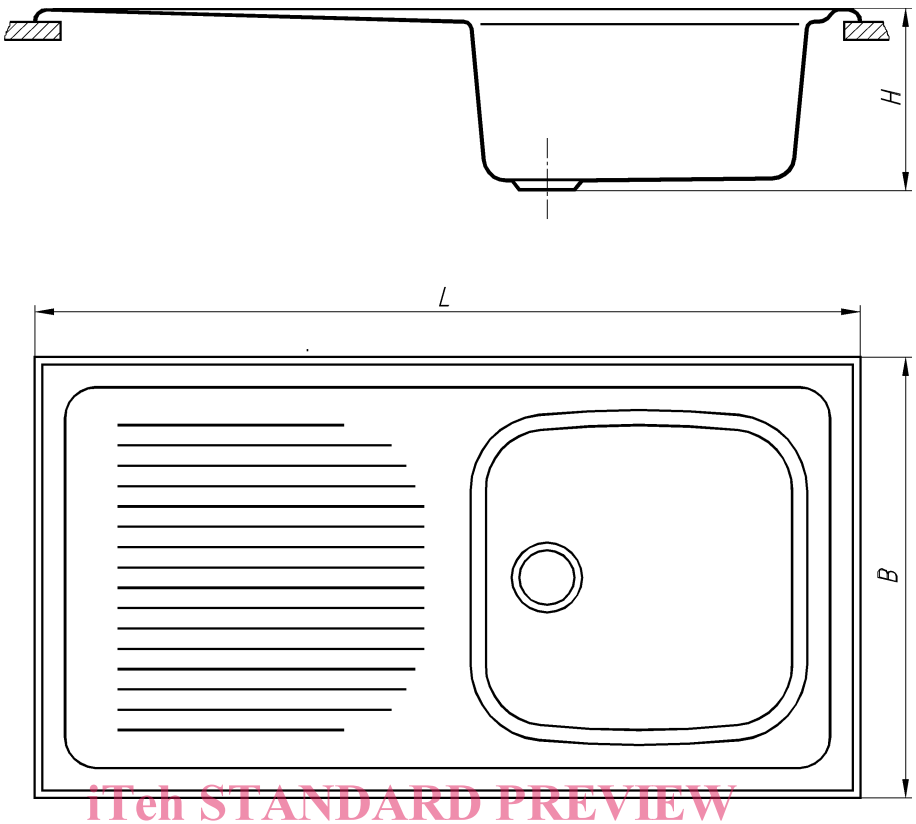

Figure 6 — Outside dimensions

3.5
product type

[A1] set of representative performance levels or classes of a construction product, in relation to its essential characteristics, produced using a given combination of raw materials or other elements in a specific production process

Note 1 to entry: The definition is taken from Regulation (EU) No. 305/2011. [A1]

4 [A1] Characteristics [A1]

4.1 General

[A1] Instructions for installation, use and care shall be supplied.

Annex A gives advice on the care and use of kitchen sinks which can be included in the instructions for use and care.

NOTE The manufacturer's declaration of conformity with applicable European Directives is made in his instructions for use and care on materials intended to come into contact with foodstuffs (see Bibliography). [A1]

4.2 Connecting dimensions

The connecting dimensions shall meet the requirements specified in EN 695.

4.3 Draining of water

When tested in accordance with 5.2 all surfaces of the kitchen sink shall be inclined towards the bowl(s) and/or outlet(s) to ensure the drainage of water.

The requirement shall apply only to the bowl and the draining area (if applicable). The requirement shall not apply to tap platforms.

4.4 Resistance to dry heat

The test is intended to determine the suitability of kitchen sink surfaces where contact with moderately hot cooking pots is to be expected.

When tested in accordance with 5.3, or alternatively at a temperature of 180 °C in accordance with ISO 4211-3, the kitchen sink shall not show surface changes which influence its usage, e.g. cracks, crazing, through cracks, blistering.

Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this [A1] characteristic [A1].

4.5 Resistance to temperature changes

When tested in accordance with 5.4, the kitchen sink shall not show surface changes which influence its intended usage, e.g. cracks, de-lamination.

Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this [A1] characteristic [A1].

4.6 Resistance against chemicals and staining agents

Kitchen sinks, when used as intended, shall be resistant to household chemicals, foodstuffs and cleansing agents.

When tested in accordance with 5.5, the kitchen sinks shall not show any permanent surface deterioration, such as stains or deterioration which are not removable with water or abrasive agents.

4.7 Surface stability

4.7.1 Resistance to scratching

This [A1] characteristic [A1] is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer.

When tested in accordance with 5.6, any scratch shall not exceed 0,1 mm and/or the total depth of the top layer whichever is the least.

Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this [A1] characteristic [A1].

4.7.2 Resistance to abrasion

This [A1] characteristic [A1] is applicable only to multi-layer kitchen sinks to ensure the stability of the top layer.

When tested in accordance with 5.7, the top layer of the test specimen shall not be abraded through.

Experience has shown that kitchen sinks made of glazed ceramics and stainless steel comply with this [A1] characteristic [A1].

4.8 Load stability

When tested in accordance with 5.8, the wall-hung sink shall not crack, fall down or show permanent distortion.

4.9 Flow rate of the overflow

Every kitchen sink shall be protected against overflowing.

When tested in accordance with 5.9, the flow rate of the overflow shall not be less than 0,20 l/s.

NOTE In kitchen sinks with two or more bowls, it is possible to have only one overflow if the overflow from one bowl is interconnected to the other. A non-closeable outlet can also be used as an overflow.

4.10 Durability

Kitchen sinks conforming to the 〚A1〛 characteristics 〈A1〉 of 4.3 to 4.8 are deemed to be durable.

5 Test methods

5.1 General

The tests shall be performed in the following order:

5.2 - 5.9 - 5.8 - 5.4 - 5.3

The testing in accordance with 5.5, 5.6 and 5.7 can be conducted in any order but shall be conducted on new material for each test category.

If the kitchen sink is designed with only one bowl, then for the test conducted in accordance with 5.3 the specimens shall be cut from a second kitchen sink.

All tests shall be carried out at a room temperature of (23 ± 5) °C, except when stated differently.

5.2 Draining of water

— Install the kitchen sink horizontally in accordance with the manufacturers' installation instructions. The kitchen sink shall be cleaned with cleansing agents recommended by the manufacturer of the kitchen sink and afterwards shall be rubbed dry.

— Use tap water coloured to contrast with the colour of the kitchen sink.

— Pour not less than 1 l of this water along the highest part of the draining area, if present, and bowl(s).

— Determine whether the water has drained to waste outlet hole(s). Water remaining due to surface tension is permitted.

5.3 Resistance to dry heat

5.3.1 Test apparatus and chemicals

a) Rigid frame-work or test-rack of such a construction that a kitchen sink can be mounted horizontally, in such a way that all the outer rim is supported. The kitchen sink shall not be fastened or fixed to the frame-work or test-rack;

b) thermometer, capable of measuring temperatures between 0 °C and 250 °C to an accuracy of ± 1 °C;

c) cast cylindrical aluminium or aluminium alloy vessel, without a lid, the bottom of which has been machined flat. It shall have an external diameter of (100 ± 1,5) mm and an overall height of (70 ± 1,5) mm. The wall thickness shall be (2,5 ± 0,5) mm and the base thickness $2{,}5\,^{+0{,}5}_{0}$ mm;

d) heat source, for heating the vessel uniformly;