



SLOVENSKI STANDARD
SIST EN 13310:2003
01-oktober-2003

Kuhinjska korita – Funkcionalne zahteve in preskusne metode

Kitchen sinks - Functional requirements and test methods

Küchenspülen - Anforderungen und Prüfverfahren

Eviers de cuisine - Prescriptions fonctionnelles et méthodes d'essai

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Ta slovenski standard je istoveten z: EN 13310:2003

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English version

Kitchen sinks - Functional requirements and test methods

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méthodes d'essai

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This European Standard was approved by CEN on 2 January 2003.

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Foreword

This document (EN 13310:2003) 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of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by January 2005.

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.

Annex A is informative.

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.

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1 Scope

This European Standard specifies the functional requirements 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 standard does not specify aesthetic requirements 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

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 (including amendments).

EN 695, *Kitchen sinks - Connecting dimensions.*

EN ISO 6506, *Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1:1999)*

EN ISO 6506, *Metallic materials - Brinell hardness test - Part 2: Verification and calibration of testing machines (ISO 6506-2:1999)*

EN ISO 6506, *Metallic materials - Brinell hardness test - Part 3: Calibration of reference blocks (ISO 6506-3:1999)*

ISO 4211-3, *Furniture - Tests for surfaces - 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 European Standard, the following terms and definitions apply.

3.1

kitchen sink

a 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 (see Figure 1)

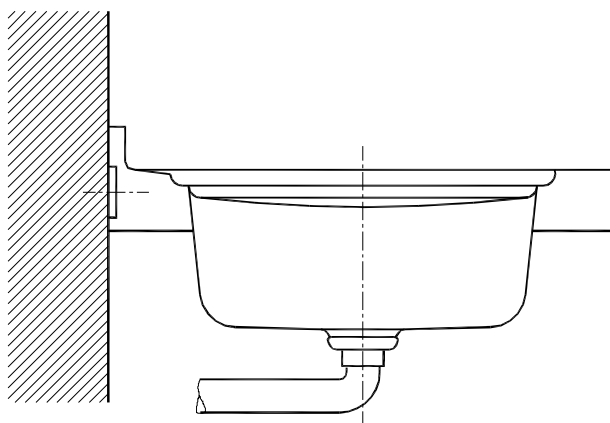


Figure 1 — Wall-hung sink

3.1.2

sit-on sink

sink which is mounted on top of a suitable base unit (see Figure 2)

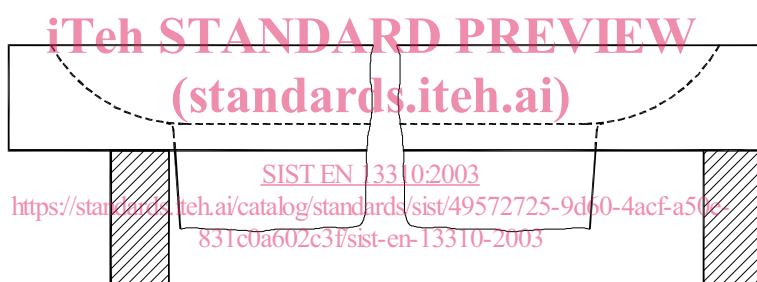


Figure 2 — Sit-on sink

3.1.3

inset sink

sink which is set into a kitchen work top from above, with the rim resting on the work top (see Figure 3)

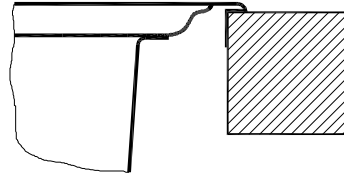


Figure 3 — Inset sink

**3.1.4
flush-fit sink**

sink which is set into a kitchen work top with the rim flush with, or within the thickness of the work top (see Figure 4)

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Figure 4 — Flush-fit sink

**3.1.5
under-mounted sink**

sink which is set into a kitchen work top from below, butting up against the work top (see Figure 5)

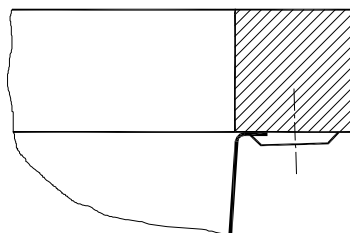


Figure 5 — Under-mounted sink

3.2**multi-layer kitchen sink**

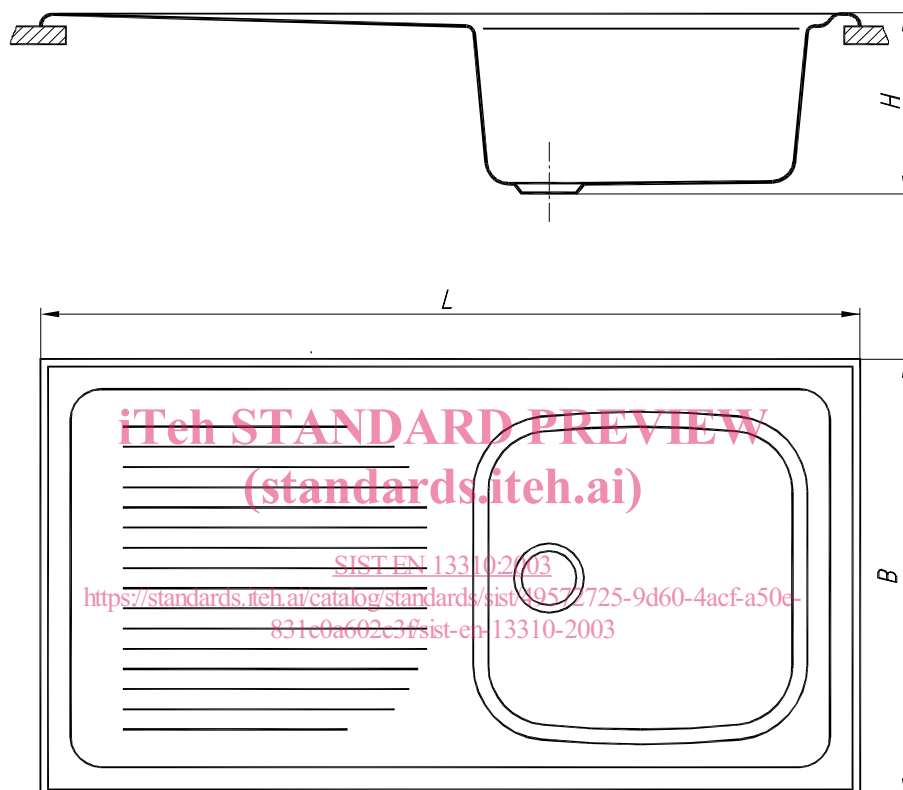
kitchen sink consisting of two or more layers

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 (see Figure 6)

**Key**

L : Overall length

B : Overall width

H : Overall height measured from the topside of the kitchen sink to the bottom of the waste outlet hole

Figure 6 — Outside dimensions

4 Requirements**4.1 General**

The manufacturer shall supply instructions for installation, use and care.

Annex A gives advice on the care and use of kitchen sinks which the manufacturer can include in his instructions for use and care.

Conformity with applicable European Directives shall be declared by the manufacturer in his instructions for use and care on materials intended to come into contact with foodstuffs (see bibliography).

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 requirement.

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 requirement.

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 requirement 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 requirement.

4.7.2 Resistance to abrasion

This requirement 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 requirement.

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 requirements of 4.3 to 4.8 are deemed to be durable.

4.11 Dangerous substances

See annex ZA.

5 Test methods

5.1 General

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The tests shall be performed in the following order:

5.2-5.9-5.8-5.4-5.3 [SIST EN 13310:2003](https://standards.iteh.ai/catalog/standards/sist/49572725-9d60-4acf-a50e-831c0a602c3f/sist-en-13310-2003)

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 the 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;