



SLOVENSKI STANDARD

SIST EN 232:2013

01-maj-2013

Nadomešča:
SIST EN 232:2003

Kopalne kadi - Priključne mere

Baths - Connecting dimensions

Badewannen - Anschlussmaße

Baignoires - Cotes de raccordement

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Ta slovenski standard je istoveten z: ~~SIST EN 232:2012~~ EN 232:2012

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ICS:

91.140.70 Sanitarne naprave Sanitary installations

SIST EN 232:2013

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 232

October 2012

ICS 91.140.70

Supersedes EN 232:2003

English Version

Baths - Connecting dimensions

Baignoires - Cotes de raccordement

Badewannen - Anschlussmaße

This European Standard was approved by CEN on 18 August 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.

CEN members are the national standards bodies of 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 United Kingdom.

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Contents

Page

| | |
|--|-----------|
| Foreword..... | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Connecting dimensions | 4 |
| 3.1 Basic dimensions | 4 |
| 3.2 Dimensions of the waste outlet hole | 6 |
| 3.3 Clearance around the waste outlet hole..... | 7 |
| 3.4 Dimensions and clearance around the overflow hole | 7 |
| 3.5 Dimensions and clearance around tapholes | 8 |
| Annex A (normative) Determination of dimensions | 10 |
| A.1 Test apparatus | 10 |
| A.2 Determination of the fit of the control gauge in the waste outlet hole..... | 11 |

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SIST EN 232:2013

<https://standards.iteh.ai/catalog/standards/sist/5af9337a-7202-4270-b27b-9bd821150988/sist-en-232-2013>

Foreword

This document (EN 232:2012) 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 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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 232:2003.

Since the previous edition, the text now includes more definition to the waste gauges in Annex A.1.

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.

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EN 232:2012 (E)**1 Scope**

This European Standard specifies requirements for the connecting dimensions of baths, regardless of the material used for their manufacture.

This European Standard applies to baths used for domestic purposes and complements the standards for baths made from different materials, the existing standards on tap ware and waste fittings (EN 200 and EN 274-1) in terms of their dimensional requirements.

NOTE Only dimensions are compulsory. The shape of the appliance in the figures is for illustration only; it in no way prejudices the shape of the appliance which is left to the initiative of the manufacturer.

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 274-1, *Waste fittings for sanitary appliances – Part 1: Requirements*

3 Connecting dimensions

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3.1 Basic dimensions

The basic dimensions H , a , H_1 and h_1 shall comply with Table 1 to enable compatibility with waste fittings in accordance with EN 274-1.

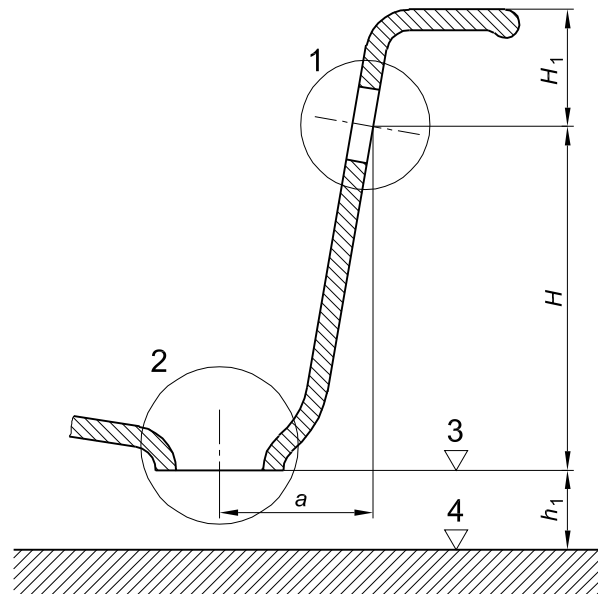
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Table 1 — Basic dimensions (see Figure 1)

| Designation | Symbol | Values mm | Remarks |
|--|--------|--------------|---|
| Vertical distance between the axis of the overflow hole, if provided, and the plane of the waste outlet hole | H | 330 to 390 | Standard type, for waste fitting in accordance with EN 274-1 |
| | | 230 to 330 | Other waste fitting in accordance with EN 274-1 |
| | | 390 to 520 | Other waste fitting in accordance with EN 274-1 |
| | | ≥ 520 | With a waste fitting specified or provided by the manufacturer |
| Horizontal distance between the axis of the waste outlet hole and the axis of the overflow hole, if provided | a | 170 to 230 | Waste fitting in accordance with EN 274-1 |
| | | 110 to 170 | Other waste fitting in accordance with EN 274-1 |
| | | > 230 | With a waste fitting specified or provided by the manufacturer |
| Distance between the floor and the plane of the waste outlet hole measured at the centre line of the waste outlet hole | h_1 | ≥ 130 | For fittings in accordance with EN 274-1. Can be reduced provided a 50 mm water seal trap can be accommodated |
| | | ≥ 70 | Exclusively for countries which permit in their regulation the installation of baths without traps |
| Distance between the axis of the overflow hole, if provided, and the spillover | H_1 | ≥ 60 | |

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**Key**

- 1 details shown in Figure 4
- 2 details shown in Figure 2
- 3 plane of the waste outlet hole
- 4 floor

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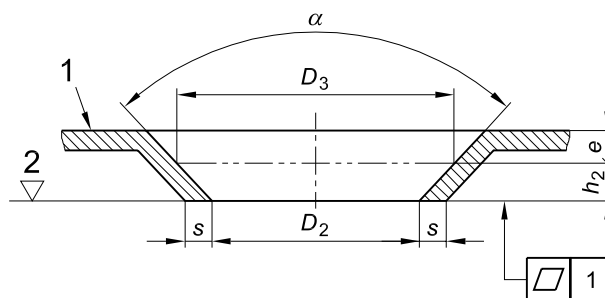
3.2 Dimensions of the waste outlet hole

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The dimensions of the waste outlet hole shall be as given in Table 2 to enable compatibility with EN 274-1 (see also Annex A).

Table 2 — Dimensions of the waste outlet hole (see Figure 2)

| Designation | Symbol | Values mm | Remarks |
|--|----------|------------------|--------------------|
| Diameter of the waste outlet hole | D_2 | 52^{+3}_{-2} | |
| | | 90^{+3}_{-2} | |
| Distance between the contact diameter of the control gauge and the bottom of the bath around the waste outlet hole | e | ≥ 2 | |
| Contact diameter of the control gauge | D_3 | 70 | When $D_2 = 52$ mm |
| | | 115 | When $D_2 = 90$ mm |
| Contact cone angle | α | $\leq 120^\circ$ | |
| Height between the contact diameter of the control gauge and the plane of the waste outlet hole | h_2 | 6 to 16 | When $D_2 = 52$ mm |
| | | 6 to 25 | When $D_2 = 90$ mm |
| Sealing surface for waste fitting | s | ≥ 3 | |

**Key**

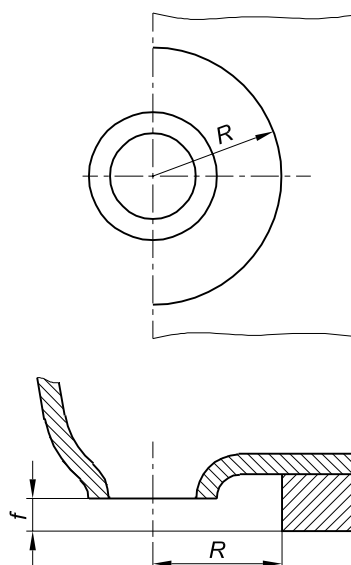
- 1 bottom of the bath around the waste outlet hole
- 2 plane of the waste outlet hole

Figure 2 — Waste outlet hole**3.3 Clearance around the waste outlet hole**

The clearance around the waste outlet hole shall comply with the dimensions given in Table 3.

Table 3 — Clearance around the waste outlet hole (see Figure 3)

| Designation | Symbol | Values mm | Remarks |
|---|--------|--------------|--------------------|
| Radius of the circular area which shall remain free for installation of the waste fitting | R | ≥ 60 | When $D_2 = 52$ mm |
| | | ≥ 80 | When $D_2 = 90$ mm |
| Thickness of reinforcing material around the waste outlet hole | f | ≤ 15 | |

**Figure 3 — Clearance around the waste outlet hole (example for rectangular bath)****3.4 Dimensions and clearance around the overflow hole**

The dimensions and the clearance around the overflow hole, if provided, shall comply with Table 4.