



SLOVENSKI STANDARD
SIST EN 232:2003

01-oktober-2003

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SIST EN 232:1998

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Baths - Connecting dimensions

Badewannen - Anschlussmaße

Baignoires - Cotes de raccordement

[SIST EN 232:2003](#)

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Ta slovenski standard je istoveten z: EN 232:2003

ICS:

91.140.70 Sanitarne naprave

Sanitary installations

SIST EN 232:2003

en

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English version

Baths - Connecting dimensions

Baignoires - Cotes de raccordement

Badewannen - Anschlussmaße

This European Standard was approved by CEN on 17 January 2003.

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 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 232:2003) 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of an identical text or by endorsement, at the latest by November 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.

This document supersedes EN 232:1990.

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.

Annex A is normative.

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 standard specifies requirements for the connecting dimensions of baths, regardless of the material used for their manufacture.

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

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

3 Connecting dimensions

3.1 Basic dimensions

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

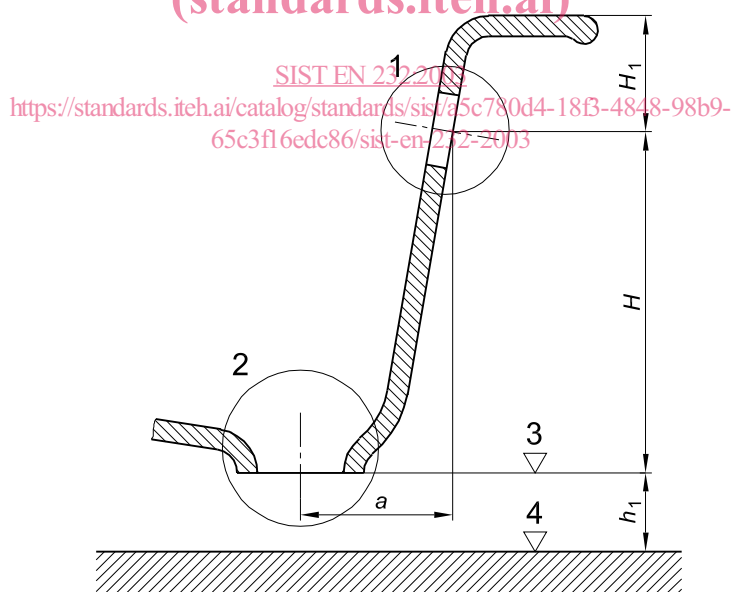
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Table 1 — Basic dimensions (see Figure 1)

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 according to EN 274-1
		230 to 330	Other waste fitting according to EN 274-1
		390 to 520	Other waste fitting according to 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 according to EN 274-1
		110 to 170	Other waste fittings according to 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 hole	h_1	≥ 130	For fittings according to 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

Figure 1 — Basic dimensions

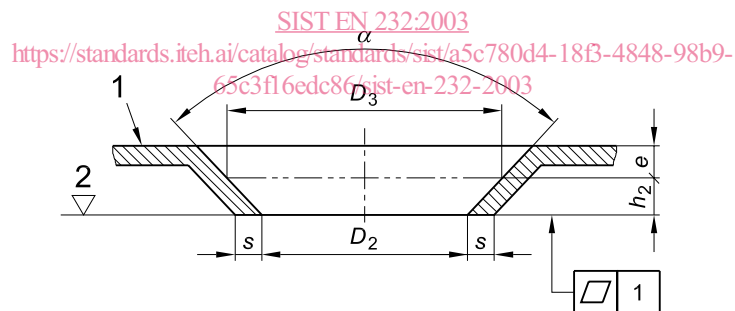
3.2 Dimensions of the waste outlet hole

The dimensions of the waste outlet hole shall be as given in Table 2 to enable compatibility with EN 274-1.

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	-
Sealing surface for waste fitting	s	≥ 3	

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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	-

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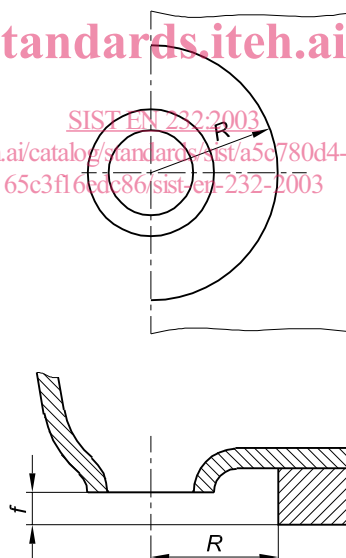


Figure 3 — Clearance around the waste outlet hole (example for rectangular bath)