



**SLOVENSKI STANDARD**  
**SIST EN 251:2003**

**01-oktober-2003**

**BUXca Yý U**  
**SIST EN 251:1998**

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**Šifra standarda**

Shower trays - Connecting dimensions

Duschwannen - Anschlussmaße

Receveurs de douche - Cotes de raccordement

[SIST EN 251:2003](#)

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**Ta slovenski standard je istoveten z: EN 251:2003**

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Sanitarne naprave

Sanitary installations

**SIST EN 251:2003**

**en**

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English version

## Shower trays - Connecting dimensions

Receveurs de douche - Cotes de raccordement

Duschwannen - 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  
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## Foreword

This document (EN 251:2003) 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of an identical text or by endorsement, at the latest by November 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.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 251:1990.

This draft European Standard applies to shower trays 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 for shower trays, 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.*

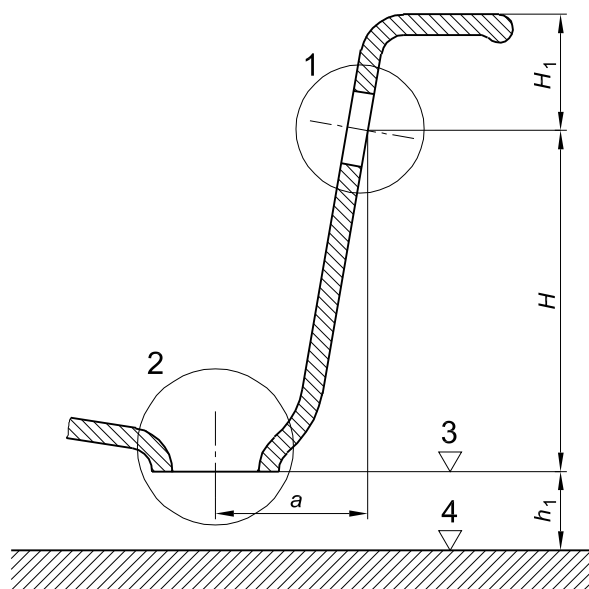
## 3 Connecting dimensions

### 3.1 Basic dimensions

The basic dimensions  $H$ ,  $a$ ,  $H_1$  and  $h_1$  shall comply with those given in Table 1.

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Table 1 — Basic dimensions (see Figure 1)

Designation	Symbol	Value mm	Remarks
Vertical distance between the axis of overflow hole, if provided, and the plane of the waste outlet hole	$H$	165 to 260	-
Horizontal distance between the axis of the waste outlet hole and the axis of the overflow, if provided	$a$	110 to 170	Standard type waste fitting according to EN 274-1
		$\geq 170$	With a waste fitting specified or provided by the manufacturer
Distance between the axis of the overflow, if provided, and the spillover	$H_1$	$\geq 60$	-
Distance between the floor and the plane of the waste outlet hole measured at the centre line of the hole	$h_1^a$	$\geq 130$	For all shower trays with overflow
		$\geq 85$	For all shower trays
<sup>a</sup> Only applicable, when the trap is to be accommodated above the finished floor.			

**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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Figure 1 — Basic dimensions

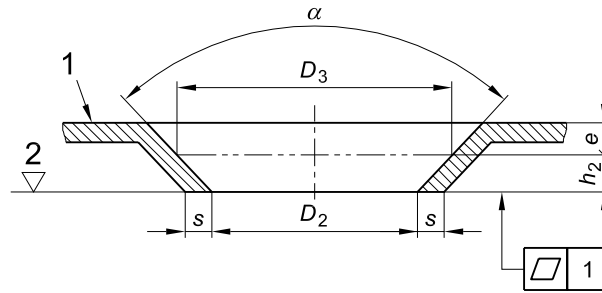
### 3.2 Dimensions of the waste outlet hole

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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.

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

Designation	Symbol	Values mm	Remarks
Diameter of waste outlet hole	$D_2$	$52^{+3}_{-2}$	
		$62^{+3}_{-2}$	
		$90^{+3}_{-2}$	
Contact diameter of control gauge	$D_3$	70	When $D_2 = 52$ mm
		85	When $D_2 = 62$ mm
		115	When $D_2 = 90$ mm
Contact cone angle	$\alpha$	$\leq 120^\circ$	
Clamping height of the waste outlet hole	$h_2$	6 to 16	When $D_2 = 52$ mm
		6 to 25	When $D_2 = 62$ mm or 90 mm
Sealing surface for the waste fitting	$s$	$\geq 3$	
Distance between the contact diameter of control gauge and the bottom shower tray around the waste outlet hole	$e$	$\geq 2$	



**Key**

- 1 Bottom of the shower tray around the waste outlet hole
- 2 Plane of the waste outlet hole

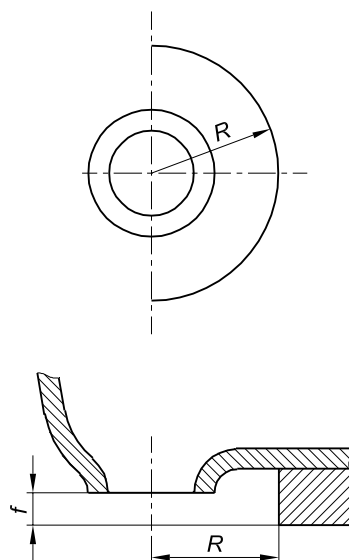
**Figure 2 — Waste outlet hole**

**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 the waste fitting	$R$	$\geq 60$	When $D_2 = 52$ mm
		$\geq 65$	When $D_2 = 62$ mm
		$\geq 80$	When $D_2 = 90$ mm
Thickness of the reinforcing material around the waste outlet hole	$f$	$\leq 15$	



**Figure 3 — Clearance around the waste outlet hole**



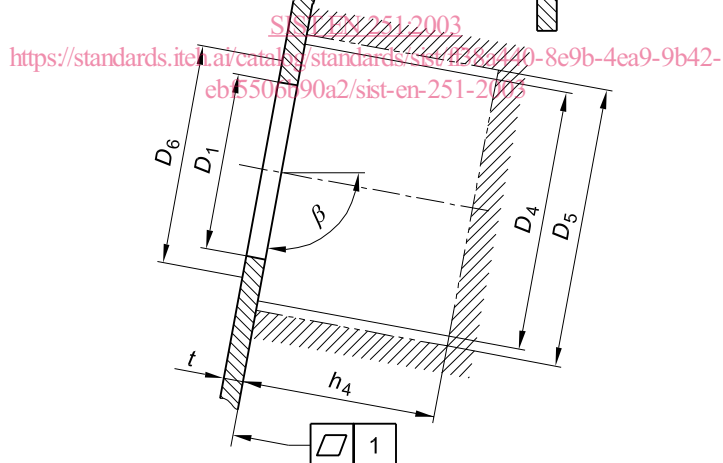
### 3.4 Dimensions and clearance around the overflow hole

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

**Table 4 — Dimensions and clearance around the overflow hole (see Figure 4)**

Designation	Symbol	Values mm
Diameter of the overflow hole, if provided	$D_1$	$52^{+3}_{-2}$
Diameter of the flat area intended to accommodate the gasket on reverse side	$D_4$	$\geq 75$
Diameter of the clearance around the overflow hole for the overflow fitting	$D_5$	$\geq 80$
Depth of the clearance around the overflow hole for the overflow fitting	$h_4$	$\geq 60$
Thickness of the material within $D_4$	$t$	2 to 10
Angle of flat area of $D_4$ in relation to the plane of the waste outlet hole	$\beta$	$(98 \pm 5)^\circ$
Diameter of the flat area intended to accommodate the gasket on the inside of the shower tray	$D_6$	$\geq 65$

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**Figure 4 — Dimensions and clearance around any overflow hole**