SLOVENSKI STANDARD
SIST EN 14528:2015

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Nadomešča:
SIST EN 14528:2007

Bideji - Funkcionalne zahteve in preskusne metode

Bidets - Functional requirements and test methods

Sitzwaschbecken - Funktionsanforderungen und Prüfverfahren

Bidets - Exigences fonctionnelles et méthodes d'essai

Ta slovenski standard je istoveten z: EN 14528:2015

ICS:

91.140.70	Sanitarne naprave	Sanitary installations

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EUROPEAN STANDARD

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EN 14528

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ICS 91.140.70

Supersedes EN 14528:2007

English Version

Bidets - Functional requirements and test methods

Bidets - Exigences fonctionnelles et méthodes d'essai

Sitzwaschbecken - Funktionsanforderungen und Prüfverfahren

This European Standard was approved by CEN on 19 June 2015.

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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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 14528:2015) 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of an identical text or by endorsement, at the latest by January 2016 and conflicting national standards shall be withdrawn at the latest by April 2017.

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 14528:2007.

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 the EU Construction Products Regulation.

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

Since the latest edition of EN 14528 the most significant technical changes are the following:

a) introduction of the term “product type”;

b) introduction of the clause “Dangerous substances”;

c) modification of the marking of products;

d) replacement of the clause “Evaluation of conformity” by “Assessment and verification of constancy of performance – AVCP” and replacement of Annex ZA by a new one in accordance with provisions of Regulation 305/2011/EU.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the functional requirements and test methods for bidets used for domestic purposes and made from either ceramics or stainless steel.

All drawings are examples only, other forms are permissible.

NOTE For the purposes of this standard the term ‘domestic purposes‘ includes use in hotels, accommodation for students, hospitals and similar buildings, except when special medical provisions are required.

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 35, *Pedestal and wall-hung bidets with over-rim supply - Connecting dimensions*

3 Terms and definitions

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

3.1
bidet
sanitary appliance for washing the genital area whilst seated

Note 1 to entry: See Figures 1 and 2.

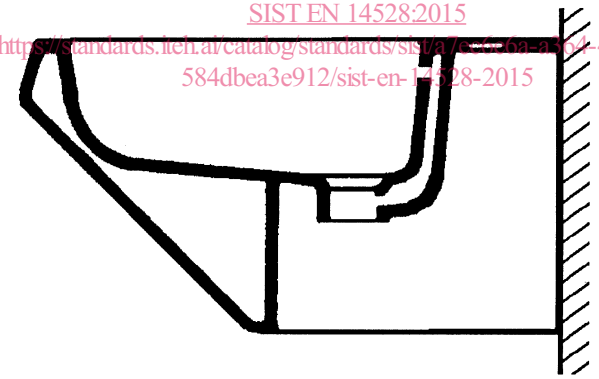


Figure 1 — Wall-hung bidet

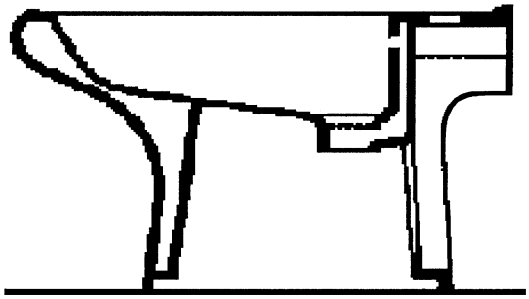


Figure 2 — Pedestal bidet

3.2
cleanability
characteristic which allows surfaces intended to come into contact with water to be visibly smooth, non-absorbent and free from unacceptable internal corners, such that they can be kept visibly free from dirt and/or stains when subject to a regular maintenance regime, which may include, when appropriate, specific instructions for use and care, as specified by the manufacturer

3.3
product type
construction product with a set of representative performance levels or classes in relation to its Essential Characteristics, produced using a given combination of raw materials or other elements in a specific production process

4 Requirements

4.1 Connecting dimensions

The connecting dimensions for the supply and outlet fitting shall conform to EN 35, or the manufacturer shall either supply or recommend appropriate fittings.

4.2 Load stability

When tested in accordance with 5.2, stainless steel and all wall-hung bidets shall withstand a force of (4,00 ± 0,1) kN without showing any evidence of cracking and/or permanent deformation.

4.3 Cleanability

When tested in accordance with 5.3, bidets shall have smooth and readily cleansed non-absorbent functional surfaces which are free from acute internal corners which would be difficult to clean, i.e. surfaces intended to or likely to come into contact with water during use.

NOTE Functional surfaces do not include inlet and outlet holes, outlet grills, etc.

4.4 Protection against overflowing

4.4.1 Bidets with overflow

Every bidet shall be protected against overflowing.

When tested in accordance with 5.4, the flow rate of the overflow shall not be less than the values given in Table 1.

Table 1 — Flow rates of overflow

Overflow class	Overflow rate l/s
CL 25	0,25
CL 20	0,20
CL 15	0,15
CL 00	See 4.4.2

4.4.2 Bidets without overflow

A bidet with a non-closable outlet or a floor gully may also be used as a protection against overflowing. In this case the bidet is related to Class CL 00.

4.5 Durability

Products conforming to the requirements of 4.2 to 4.4 are deemed to be durable.

5 Test methods

5.1 General

All tests shall be carried out on the same sample bidet.

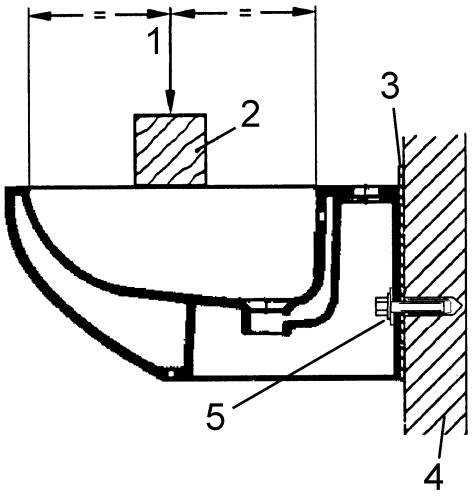
Install the bidet to be tested on a firm flat horizontal or vertical surface as appropriate with a layer of mortar or other material to accommodate any unevenness.

5.2 Static load test

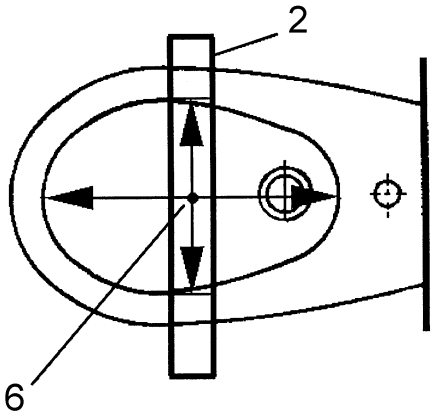
— The bidet shall be fixed in accordance with the manufacturer's instruction onto a smooth surface with a layer of mortar or other facing material used for pointing between the back of the bidet and the smooth surface.

— Gradually apply a force of (4,00 ± 0,1) kN on top of a wooden beam with a cross section of 100 mm × 100 mm positioned across the geometric centre of the bowl of the bidet parallel to the wall (see Figure 3). Allow the force to remain in position for a period of 1 h.

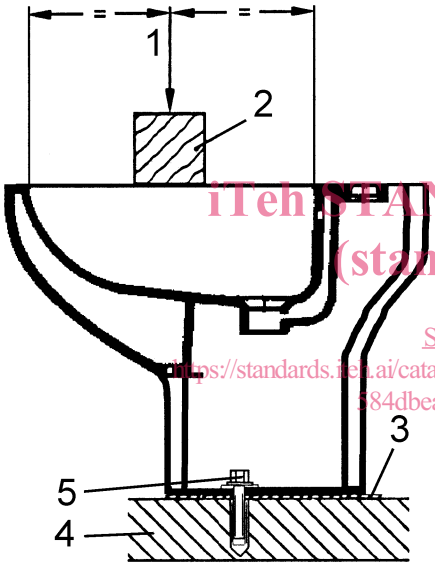
— Record any failure to comply with 4.2. Any distortion at the points of direct loading shall not constitute a failure.



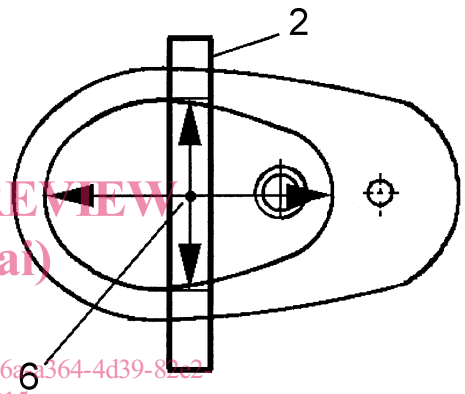
a) Testing the wall-hung bidets – Lateral view



b) Testing the wall-hung bidets – Upper view



c) Testing the pedestal bidets – Lateral view



d) Testing the pedestal bidets – Upper view

Key

1 load (4,0 ± 0,1) kN

2 wooden beam with cross-section 100 mm x 100 mm of adequate length

3 compensation layer

4 wall or floor

5 threaded rod, nut and flexible washer (maximum torque 5 Nm)

6 geometric centre of bowl

Figure 3 — Load test

5.3 Cleanability

— Visually examine the functional surfaces of the bidets using a suitable light source.

— Record any failure to comply with 4.3.

Imperfections that do not affect the functionality of the surface shall not constitute a failure.

5.4 Determination of flow rate of overflow

— The bidet shall be installed horizontally in accordance with the manufacturer's instructions.

— Close the waste-outlet hole(s).

— Introduce the water supply avoiding turbulence by means of a flexible tube with an inner diameter of 20 mm which leads to the bottom of the bowl. Adjust the quantity of water supply in such a way that no water spills over the rim or the tap platform of the bidet, whichever is the lowest.

— Read the water flow rate after a steady-state condition has been established for a period of 60 s by means of a flow-meter fitted into the supply pipe.

6 Dangerous substances

National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets.

In the absence of European harmonized test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.

NOTE An informative database covering European and national provisions on dangerous substances is available at the Construction website on EUROPA.

7 Marking

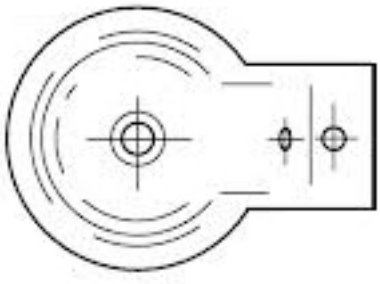
The intended use of bidets is personal hygiene in accordance with the scope of this standard.

NOTE The intended use is also mentioned in Annex ZA, Table ZA.1. The abbreviation “PH” for the intended use personal hygiene might be used for CE marking. A schematic drawing of the product might be used for CE marking.

A schematic drawing of the product may optionally follow the abbreviation for personal hygiene.

EXAMPLE 1 Use of full text: personal hygiene.

EXAMPLE 2 Use of abbreviation: PH.

EXAMPLE 3 Use of abbreviation and the optional schematic drawing: PH  .

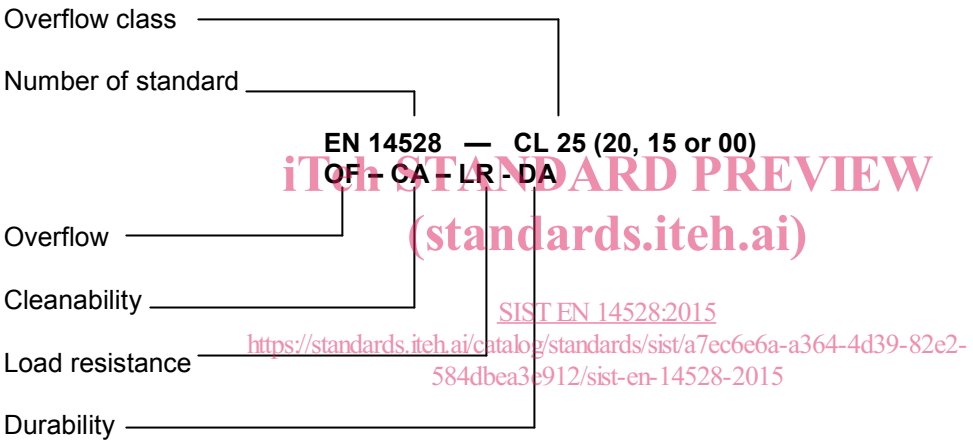
Bidets belong always to one class and type at least. For each class and type a set of requirements to be tested (see 8.2.2) is defined. Due to this, a bidet can be described with a designation code which includes all fulfilled essential requirements.

The relevant product characteristics and the Essential Characteristics for bidets including their abbreviations are given in Table 2.

Table 2 — Characteristics and abbreviations for bidets

Abbreviations	Characteristics
EN 14528	Number of European Standard for bidets for product description
CL (X)	Class of bidet with an integral overflow providing a flow rate (X) with: 25 for ≥ 0,25 l/s flow rate 20 for ≥ 0,20 l/s flow rate 15 for ≥ 0,15 l/s flow rate 00 for without integral overflow
OF	Overflow
CA	Cleanability
LR	Load resistance (for wall-hung wash basins only)
DA	Durability

All bidets shall be designated in accordance with the following system:



The second line of the designation code can be omitted when those characteristics are fulfilled.

EXAMPLE 4 Class 25 bidet, i.e. bidet with an overflow providing a flow rate of 0,25 l/s. All essential characteristics specified for these products in accordance with Annex ZA are satisfied.

EN 14528 — CL 25

8 Assessment and verification of constancy of performance – AVCP

8.1 General

The compliance of bidets with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by:

— determination of the product type (see 8.2);

— factory production control by the manufacturer (FPC), including product assessment (see 8.3).

The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).