



**SLOVENSKI STANDARD**  
**SIST EN 14688:2007**

**01-januar-2007**

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**Sanitarne naprave – Umivalniki - Funkcionalne zahteve in preskusne metode**

Sanitary appliances - Wash basins - Functional requirements and test methods

Sanitärausstattungsgegenstände - Waschbecken - Funktionsanforderungen und Prüfverfahren

Appareils sanitaires - Lavabos - Exigences fonctionnelles et méthodes d'essai

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**ICS:**

91.140.70      Sanitarne naprave                      Sanitary installations

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ICS 91.140.70

English Version

## Sanitary appliances - Wash basins - Functional requirements and test methods

Appareils sanitaires - Lavabos - Exigences fonctionnelles et  
méthodes d'essai

Sanitärausstattungsgegenstände - Waschbecken -  
Funktionsanforderungen und Prüfverfahren

This European Standard was approved by CEN on 4 September 2006.

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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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, 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 14688:2006) 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of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by August 2008.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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## 1 Scope

This European Standard specifies the functional requirements and test methods for wash basins for domestic purposes.

NOTE 1 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.

NOTE 2 All drawings are examples only. The shape of the appliance is left to the discretion of the manufacturer.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1:2005)*

ISO 9352, *Plastics — Determination of resistance to wear by abrasive wheels*

## 3 Terms and definitions

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

### 3.1

#### wash basin

sanitary appliance primarily intended for washing the upper parts of the body, with one or more bowls, each with a waste outlet hole, with or without overflow and with or without taphole(s)

NOTE The various types of wash basins are differentiated by the methods of mounting. The main types are the following:

#### 3.1.1

##### wall-hung wash basin

wash basin attached directly to a wall (see Figures 1 and 2)

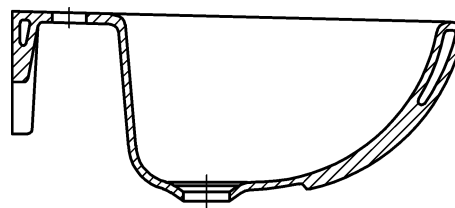
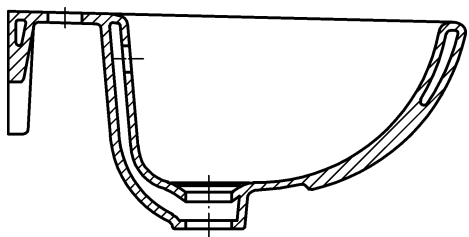


Figure 1 — Wall-hung wash basin with overflow

Figure 2 — Wall-hung wash basin without overflow

#### 3.1.2

##### bracket-mounted wash basin

wash basin supported on brackets which are fixed to a wall (see Figure 3)

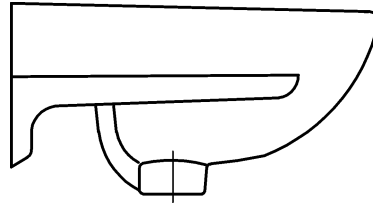
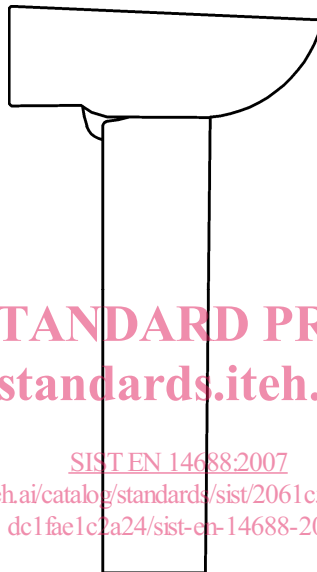


Figure 3 — Bracket-mounted wash basin

**3.1.3**

**pedestal wash basin**

wash basin supported by a floor mounted pedestal (see Figure 4)



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Figure 4 — Pedestal wash basin

**3.1.4**

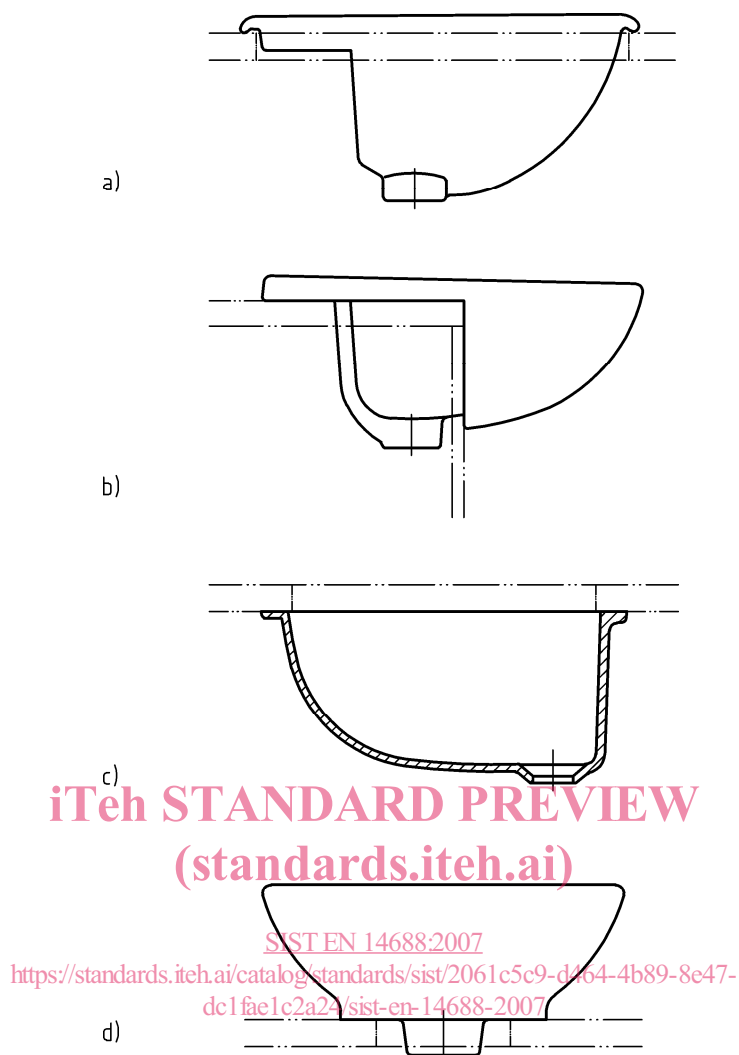
**vanity wash basin**

wash basin installed into a vanity top (see Figure 5).

The bowl(s) may be mounted in different ways:

- a) the rim of the wash basin rests on the vanity top (inset wash basin);
- b) the front of the basin protrudes beyond the front edge of the vanity top (semi-recessed wash basin);
- c) the rim of the wash basin butts against the underside of the vanity top (wash basin mounted beneath a vanity top);
- d) the bottom of the wash basin rests on the vanity top (vessel wash basin).





**Figure 5 — Vanity top wash basins**

### 3.1.5

#### **corner wash basin**

wash basin intended to be installed in a 90 ° - wall corner and to be attached to both walls

### 3.2

#### **handrinse basin**

wash basin with a width of  $\leq 530$  mm, intended for hand washing only

### 3.3

#### **multi-layer wash basin**

wash basin consisting of two or more layers of material

## 4 Requirements

### 4.1 Load resistance

When tested in accordance with 5.2, wall-hung wash basins shall not crack, be broken or show permanent distortion.

## 4.2 Draining of water

When tested in accordance with 5.3, all water shall drain away.

## 4.3 Resistance to temperature changes

When wash basins are tested in accordance with 5.4, they shall not show defects, such as cracks or delamination which influences the intended use.

Experience has shown that wash basins made of glazed ceramics, stainless steel, enamelled steel and glass comply with this requirement.

## 4.4 Resistance to chemicals and staining agents

When used as intended, any functional surface shall be resistant to household chemicals and cleansing agents recommended by the manufacturer.

When tested in accordance with 5.5, wash basins shall not show any permanent surface deterioration, such as stains or deterioration not removable with water or abrasive agent.

Experience has shown that wash basins made of glazed ceramics, stainless steel and enamelled steel comply with this requirement.

## 4.5 Surface stability

This requirement is applicable only to multi-layer wash basins 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.

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When tested in accordance with 5.7, the top layer of the test specimen shall not be abraded through.

Experience has shown that wash basins made of glazed ceramics and enamelled steel comply with these requirements.

## 4.6 Cleanability

When tested in accordance with 5.8, wash basins 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.

Experience has shown that wash basins manufactured from plastics materials, enamelled steel/cast iron, stainless steel, glazed ceramics and glass, designed and constructed without acute internal corners, satisfy this requirement.

## 4.7 Protection against overflowing

### 4.7.1 Wash basins with overflow

Every wash basin shall be protected against overflowing.

When tested in accordance with 5.9, the flow rate of a single 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 10	0,10
CL 00	See 4.7.2

NOTE In two-bowl wash basins, it is permitted to have only one overflow, if the overflowing from one bowl to the other is ensured.

#### 4.7.2 Wash basins without overflow

A wash basin with a non-closable outlet or a floor gully may also be used as a protection against overflowing. In this case the wash basin is considered to be class CL 00.

#### 4.8 Durability

Products conforming with the requirements of 4.1 to 4.7 are deemed to be durable.

#### 4.9 Dangerous substances

NOTE See ZA.1 and ZA.3.

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### 5 Test methods

#### 5.1 General

All tests may be carried out on the same sample wash basin.

#### 5.2 Load resistance

- Install the wash basin to be tested in a horizontal position in accordance with the manufacturer's instructions onto smooth surface(s) with a layer of mortar or other facing material used for pointing between the back of wash basin and the smooth surface.
- Gradually apply a force of  $(1,50 \pm 0,01)$  kN on top of a wooden beam with a cross section of 100 mm x 100 mm positioned in accordance with Figure 6. Allow the force to remain in position for a period of 1 h.