



SLOVENSKI STANDARD
SIST EN 198:1998
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Specifikacije za kopalne kadi iz akrila

Specification for finished baths for domestic purposes made of acrylic material

Spezifizierung von Badewannen für den Hausgebrauch, hergestellt aus Acrylmaterial

Spécifications des baignoires finies à usage domestique en matières acryliques

Ta slovenski standard je istoveten z: EN 198:1987

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ICS:

91.140.70 Sanitarne naprave Sanitary installations

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 198

June 1987

UDC 696.144.5-036.744.33:644.68:620.1

Key words : Sanitary appliances, Bathtubs, Acrylic resins, Dimensional tolerances, Tests, Thermal cycling tests, Chemical resistance, Resistance to household products, Deformation, Marking.

English version

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 made of acrylic material**

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 CEN members are bound to comply with the requirements of CEN
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Up-to-date lists and bibliographical references concerning such
 national standards may be obtained on application to the CEN
 Central Secretariat 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 CEN Central Secretariat
 has the same status as the official versions.

CEN members are the national standards organizations of
 Austria, Belgium, Denmark, Finland, France, Germany, Greece,
 Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden,
 Switzerland and United Kingdom.

CEN

European Committee for Standardization
 Comité Européen de Normalisation
 Europäisches Komitee für Normung

Central Secretariat : Rue Bréderode 2, B-1000 Brussels

BRIEF HISTORY

This European Standard was drawn up by the Technical Committee CEN/TC 86 "Baths and shower trays made from acrylic materials" the Secretariat of which is held by BSI.

According to the Common CEN/CENELEC Rules, following countries are bound to implement this European Standard:

Austria, Finland, France, Germany, Greece, Italy, Netherlands, Spain, United Königreich.

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FOREWORD

In order to facilitate the progress of work the Technical Committee CEN/TC 86 agreed to study the performance criteria for baths for domestic purposes¹⁾ made from acrylic materials and has decided to divide the study into several ENs as follows:

- EN 198 Specification for finished baths for domestic purposes made of acrylic material
- EN 263 Specification for cast acrylic sheet for baths and shower trays for domestic purposes
- EN 265 Specification for extruded acrylic sheet for baths and shower trays for domestic purposes

All domestic baths made from acrylic materials will have to comply with EN 198 and the performance requirements of the EN dealing with the relevant acrylic material.

As soon as it is completed each EN will be submitted for publication separately in the order given above.

Other acrylic materials will be considered only when EN 198 and EN 263 have been completed.

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It is intended in due course to produce a further EN specifying requirements specific to the mounting of taps on baths.

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.

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1 SCOPE AND FIELD OF APPLICATION

This European Standard specifies the requirements for baths for domestic purposes¹⁾ made from acrylic materials which ensure that the product, when installed in accordance with manufacturers' instructions, gives satisfactory performance.

This standard does not specify requirements specific to the mounting of taps on baths. It is therefore applicable to baths for use with wall mounted taps. It is also applicable to baths for use with bath mounted taps and in this case it should be used in conjunction with a specification covering the requirements for tap mounting where this exists.

This standard is applicable to all sizes and shapes of baths. No requirements are given for nominal bath sizes or dimensional coordination. The latter aspects may be covered by other standards.

2 GENERAL

2.1 The bath shall be manufactured from acrylic material complying with the requirements of the relevant European Standard which deals with the particular type of acrylic material used.

2.2 The manufacturer shall provide with each bath instructions for installation and care. The bath shall be free from sharp edges that would be exposed after installation of the bath in accordance with the manufacturer's instructions.

2.3 When the bath is visually inspected under strong and oblique illumination there shall be no evidence of cracks, chips, or other surface defects, such as unexpected changes in colours etc., that will impair the appearance or performance of the bath.

2.4 The bath shall have a waste outlet hole.

2.5 The bath shall have an overflow hole unless specifically ordered otherwise by the purchaser and permitted by National Regulations.

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.

2.6 The dimensions of waste outlet and overflow shall be in accordance with the requirements in force2).

2.7 The edges of any holes in the bath shall not show evidence of chips, cracks, or any other defects that will impair the appearance or performance of the bath.

2.8 Where handgrips are provided, the bath shall comply with clause 9 with the handgrip installed in accordance with the manufacturer's instructions.

3 PERMITTED DEVIATIONS

The length and width of the bath shall not deviate from the sizes quoted by the manufacturer by more than the following:

Dimension	Permitted deviation
m	mm
< 1	+ 5 - 5
> 1	+ 5 - 10

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If the manufacturer states two sizes (e.g. both a work size and a nominal size) he shall state to which size the permitted deviations apply.

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4 FUNCTIONAL CHARACTERISTICS OF THE BATH

4.1 Bath rims

The bath rims shall enable water to return to the inside of the bath.

4.2 Base

When the bath rim is level and the waste hole open, all water shall empty from the bath unless prevented by surface tension. Any provision of a slip resistant surface shall not impair the draining efficiency.

2) When a CEN Standard for connecting dimensions of sanitary appliances is published it may become the relevant standard.

5 DIMENSIONAL DEVIATIONS

5.1 General

The straight sides or edges of the bath that might abut independent surroundings or supporting structures shall comply with 5.2 to 5.5.

NOTE. These requirements are not applicable to sides or edges that are purposely designed as curves or slopes.

5.2 Squaring

The deviations from the square when measured in accordance with A.2.2 shall not exceed 5 mm at any point.

5.3 Straightness of the sides

The deviations from straightness of the sides of the bath when measured in accordance with A.2.3 shall not exceed 5 mm in the concave or convex direction at any point.

5.4 Straightness of the roll edge

The deviation from straightness of the roll edge when measured in accordance with A.2.4 shall not exceed 5 mm in the concave or convex direction at any point.

5.5 Flatness of the top surface of bath rim

The deviation from the flat plane when measured in accordance with A.2.5 shall not exceed 5 mm at any point.

6 RESISTANCE TO TEMPERATURE CHANGES

The bath shall show no evidence of distortion or other defects which will impair the appearance and/or the functioning of the bath after testing in accordance with A.3.

7 RESISTANCE TO DOMESTIC CHEMICALS AND STAINS

The bath shall not show permanent staining or deterioration after testing in accordance with A.4.

8 RESISTANCE TO IMPACT

The base and the roll of the bath shall show no evidence of distortion after testing in accordance with A.5. There shall be no other defects that will impair the functioning of the bath.

9 DEFLECTIONS

The bath support shall be type 1 or type 2. The manufacturer shall clearly indicate in all documents which type of bath is supplied.

Type 1. The bath shall be supplied with an integral support structure such that it can be installed without any additional support.

Type 2. The bath shall be supplied without a support structure such that it requires a dwarf wall installation to be erected by the installer according to a system stipulated by the manufacturer.

The deflections recorded during the tests specified in A.6 shall be not greater than those given in table 1.

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TABLE 1 - Deflections

Test no.	Maximum permissible deflection under load (mm)		Maximum permissible residual deflection (mm)
	Type 1 baths	Type 2 baths	Types 1 and 2
1	1 on roll 2 on base	0,5 on roll 2 on base	-
2	2 on roll 3 on base	0,5 on roll 3 on base	-
3	51)	0,5	0,3
4	51)	0,5	0,3
5	4		
6	3		

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1) This limit will be reduced to 4 mm three years after publication of this standard.

10 MARKING

Every bath shall be legibly marked on the underside with the following information:

- the manufacturer's or supplier's name or mark;
- the number of this European Standard, i.e. EN 198.

NOTE. By marking the bath with EN 198, the manufacturer gives an assurance that the marked bath conforms to this standard.

ANNEX A - METHODS OF TEST (OBLIGATORY)**A.1 General**

Each bath shall be capable of passing all the tests but for practical reasons it is permissible for the tests to be carried out on different baths of the same design.

A.2 Determination of dimensional deviations**A.2.1 Apparatus**

A.2.1.1 Reference plane surface, inherent flatness tolerance 0,5 mm.

A.2.1.2 Fixed square, fixed to reference plane surface, 75 mm thick, one arm at least 300 mm longer than the length of the bath and the other arm at least as long as the width of the bath.

A.2.1.3 Movable square, 75 mm thick, one side 300 mm long and the other side at least as long as the width of the bath.

A.2.1.4 Thickness comparator or gauge.

A.2.1.5 Spacing rollers.

A.2.1.6 Thickness wedges. (standards.iteh.ai)

A.2.2 Squaring (see figure 1)

Position sides AB and AD of the bath against the fixed square with the bath upside down and with the spacing rollers placed as shown in figure 1. Place the spacing rollers a distance away from the corner equal to the radius of the corner (r) plus 15 mm. Check deviation from square of angle A. Then position the portable square along side BC of the bath with a spacing rollers at $r + 15$ mm from the inner corner. Check angle B. Check angles C and D by turning the bath 180° so that angle C takes the place of angle A and angle D that of angle B.