

VANNID KODUSEKS KASUTAMISEKS

Baths for domestic purposes

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 14516:2015+A1:2018 sisaldab Euroopa standardi EN 14516:2015+A1:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 14516:2015+A1:2018 consists of the English text of the European standard EN 14516:2015+A1:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.11.2018.	Date of Availability of the European standard is 14.11.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 91.140.70

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:
Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

English Version

Baths for domestic purposes

Baignoires à usage domestique

Badewannen für den Hausgebrauch

This European Standard was approved by CEN on 20 August 2015 and includes Amendment 1 approved by CEN on 17 May 2018.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.






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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 Classification.....	6
5 Ⓐ Characteristics for type 1 products Ⓐ	6
5.1 General.....	6
5.2 Cleanability.....	6
5.2.1 Appearance of surface	6
5.2.2 Drainage of water.....	6
5.3 Durability	6
5.3.1 General.....	6
5.3.2 Stability of bottom	6
5.3.3 Resistance to chemicals and staining agents	6
5.3.4 Resistance to temperature changes	7
6 Ⓐ characteristics for type 2 products Ⓐ	7
6.1 General.....	7
6.2 Cleanability.....	8
6.2.1 Appearance of surface	8
6.2.2 Drainage of water.....	8
6.3 Durability	8
6.3.1 General.....	8
6.3.2 Materials.....	8
7 Dangerous substances.....	8
8 Test methods	8
8.1 Stability of the bottom of the bath	8
8.1.1 Test apparatus.....	8
8.1.2 Determination of the load	8
8.1.3 Procedure.....	9
8.2 Resistance to chemicals and staining agents	9
8.2.1 Principle	9
8.2.2 Test apparatus and chemicals.....	9
8.2.3 Test specimens.....	10
8.2.4 Procedure.....	10
8.2.5 Expression of results.....	11
8.3 Resistance to temperature changes	11
8.3.1 Apparatus.....	11
8.3.2 Procedure.....	11
9 Marking, labelling and packaging	12
10 Assessment and verification of constancy of performance - AVCP	13
10.1 General.....	13
10.2 Type testing.....	13
10.2.1 General.....	13

10.2.2 Samples, testing and compliance criteria 	14
10.3 Factory production control	15
10.3.1 General	15
10.3.2 Equipment.....	15
10.3.3 Raw materials and components.....	16
10.3.4 Product testing and assessment.....	16
10.3.5 Non-conforming products	16
10.3.6 Corrective action.....	16
Annex A (informative) Materials.....	17
A.1 Synthetic materials.....	17
A.2 Ceramic materials.....	17
A.2.1 Vitreous china	17
A.2.2 Fireclay.....	17
A.3 Enamelled materials.....	17
A.3.1 Enamelled cast iron	17
A.3.2 Enamelled steel.....	17
A.4 Stainless steel.....	17
Annex B (informative) Surfaces of baths.....	18
Annex ZA (informative)  Relationship of this European Standard with Regulation (EU) No.305/2011 	19
ZA.1 Scope and relevant characteristics	19
ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP)	19
ZA.3 Assignment of AVCP tasks	20
Bibliography	21

European foreword

This document (EN 14516:2015+A1:2018) 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 2019, and conflicting national standards shall be withdrawn at the latest by August 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 2018-05-17.

This document supersedes A1 EN 14516:2015 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

For relationship with EU Construction Products Regulation, 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, 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies **[A1]** characteristics **[A1]**, test methods and procedures for evaluation of conformity for baths used for domestic purposes and personal hygiene, which ensure that the product, when installed and maintained in accordance with the manufacturer's instructions, will satisfy requirements for cleanability and durability.

This European Standard is applicable to all sizes and shapes of baths.

This European Standard does not cover baths for use with medical provisions.

NOTE 1 For the purpose of this standard the term “domestic purposes” includes use in hotels, accommodation for students, hospitals and similar buildings.

NOTE 2 Annex A lists characteristics of materials commonly used for manufacturing baths.

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 232, *Baths — Connecting dimensions*

EN ISO 28706-1:2011, *Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 1: Determination of resistance to chemical corrosion by acids at room temperature (ISO 28706-1:2008)*

EN ISO 28706-2:2011, *Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 2: Determination of resistance to chemical corrosion by boiling acids, boiling neutral liquids and/or their vapours (ISO 28706-2:2008)*

EN ISO 28706-3:2011, *Vitreous and porcelain enamels — Determination of resistance to chemical corrosion — Part 3: Determination of resistance to chemical corrosion by alkaline liquids using a hexagonal vessel (ISO 28706-3:2008)*

3 Terms and definitions

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

3.1

bath

sanitary appliance used for partial immersion and washing of the human body or parts of it, and for directing water to a waste outlet after use

3.2

cleanability

characteristics which allow the surface intended to come into contact with water to be non-absorbent and readily kept visually free from dirt and/or stains when subject to a maintenance regime which may include, when appropriate, specific instructions for use and care specified by the manufacturer

3.3

durability

attributes of materials and their surfaces intended to come into contact with water, which allow the anticipated working life of the product