

**Seinale kinnitatavad urinaalid.
Funktsionaalsed nõuded ja
katsemeetodid**

Wall-hung urinals - Functional requirements and test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13407:2006 sisaldab Euroopa standardi EN 13407:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 24.11.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13407:2006 consists of the English text of the European standard EN 13407:2006.</p> <p>This document is endorsed on 24.11.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p>Käsitlusala: This European Standard specifies constructional and performance requirements together with test methods for wall-hung urinals made of vitreous china or stainless steel that are used for personal hygiene. This European Standard does not apply to slab and stall urinals nor to waterless urinals.</p>	<p>Scope: This European Standard specifies constructional and performance requirements together with test methods for wall-hung urinals made of vitreous china or stainless steel that are used for personal hygiene. This European Standard does not apply to slab and stall urinals nor to waterless urinals.</p>
--	--

ICS 91.140.70

Võtmesõnad:

ICS 91.140.70

English Version

Wall-hung urinals - Functional requirements and test methods

Urinoirs muraux - Prescriptions fonctionnelles et méthodes
d'essaiWandhängende Urinale - Funktionsanforderungen und
Prüfverfahren

This European Standard was approved by CEN on 28 August 2006.

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 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 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Principles of design.....	6
4.1 General.....	6
4.2 Flushing volume and flow rate	7
5 Classification.....	7
6 Functional requirements and test methods for class 1 products	8
6.1 Depth of water seal	8
6.2 Flushing requirements	8
6.2.1 Wash of bowl.....	8
6.2.2 Flushing of three plastics balls	8
6.2.3 Oversplashing	9
6.2.4 Discharge.....	9
6.3 Water absorption	9
6.4 Load resistance.....	9
6.5 Durability of class 1 products	9
6.6 Test methods.....	9
6.6.1 Testing the depth of water seal and flushing tests	9
6.6.2 Determination of water absorption	11
6.6.3 Static load test	12
7 Functional requirements and test methods for class 2 products	12
7.1 Depth of water seal	12
7.2 Cleanability	12
7.3 Load resistance.....	12
7.4 Durability of class 2 products	12
7.5 Test methods.....	13
7.5.1 Depth of water seal	13
7.5.2 Cleanability.....	13
8 Marking and product designation	13
9 Evaluation of conformity.....	14
9.1 General.....	14
9.2 Type testing	15
9.2.1 Initial type testing	15
9.2.2 Further type testing	15
9.2.3 Sample, testing and compliance criteria.....	15
9.3 Factory production control (FPC)	16
9.3.1 General.....	16
9.3.2 Testing equipment.....	16
9.3.3 Raw materials and components.....	16
9.3.4 Production testing and assessment.....	16
9.3.5 Non-conforming products	16
Annex A (normative) Test rig for urinals intended to be flushed by a flush valve.....	17
Annex B (normative) Test rig for urinals intended to be flushed by a manually operated flushing cistern	19
Annex C (normative) Test rig for urinals intended to be flushed by an automatic flushing cistern with valve-less outlet device.....	23

Annex ZA (informative) Clauses of this European Standard addressing the provisions of EU Construction Products Directive	25
Bibliography.....	29

This document is a preview generated by EVS

Foreword

This document (EN 13407:2006) 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 April 2007, and conflicting national standards shall be withdrawn at the latest by July 2008.

This harmonised European Standard is one of a series of harmonised standards for sanitary appliances which have been prepared under the Mandate M/110 "Sanitary appliances" which was given to CEN by the European Commission and the European Free Trade Association to allow CE marking under the Construction Products Directive (89/106/EEC).

For the 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.

1 Scope

This European Standard specifies constructional and performance requirements together with test methods for wall-hung urinals made of vitreous china or stainless steel that are used for personal hygiene.

This European Standard does not apply to slab and stall urinals nor to waterless urinals.

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 80, *Wall-hung urinals — Connecting dimensions*

EN 274-1, *Waste fittings for sanitary appliances — Part 1: Requirements*

EN 12056-2, *Gravity drainage systems inside buildings — Part 2: Sanitary pipework, layout and calculation*

3 Terms and definitions

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

3.1

wall-hung urinal

sanitary appliance comprising a bowl to be fixed to a wall, for receiving urine and water used for flushing and directing both into a drainage system (see Figure 1)

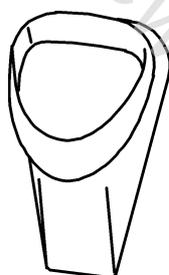


Figure 1 — Wall-hung urinal

3.2

slab urinal

sanitary appliance comprising a floor channel and a slab or sheet fixed to a wall, for receiving urine and water used for flushing and directing both into a drainage system (see Figure 2)

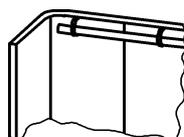


Figure 2 — Slab urinal