



SLOVENSKI STANDARD
SIST EN 14055:2011/kFprA1:2015
01-februar-2015

Izplakovalniki stranišč in pisoarjev

WC and urinal flushing cisterns

Spülkästen für WC-Becken und Urinale

Réservoirs de chasse d'eau pour WC et urinoirs

Ta slovenski standard je istoveten z: EN 14055:2010/FprA1

ICS:

91.140.70 Sanitarne naprave Sanitary installations

SIST EN 14055:2011/kFprA1:2015 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 14055:2010

FprA1

December 2014

ICS 91.140.70

English Version

WC and urinal flushing cisterns

Réservoirs de chasse d'eau pour WC et urinoirs

Spülkästen für WC-Becken und Urinale

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 163.

This draft amendment A1, if approved, will modify the European Standard EN 14055:2010. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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

Contents

Page

Foreword.....	3
1 Modification to Clause 3, Terms and definitions.....	4
2 Modifications to 5.1.6, Flush pipes.....	4
3 Modification to 5.2.3, Flush rate and impact force.....	5
4 Modification to Clause 9, Dangerous substances.....	5
5 Modification to Clause 10, Marking and product designation.....	5
6 Modification to Clause 11, Evaluation of conformity.....	8
7 Modification to Annex ZA (informative), Clauses of this European Standard addressing the provisions of the EU Construction Products Directive.....	13
8 Modification to the Bibliography.....	22

Foreword

This document (EN 14055:2010/FprA1:2014) has been prepared by Technical Committee CEN/TC 163 "Sanitary appliances", the secretariat of which is held by UNI.

This document is currently submitted to the Unique Acceptance Procedure.

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.

EN 14055:2010/FprA1:2014 (E)

1 Modification to Clause 3, Terms and definitions

Add the following term and definition at the end of the clause:

“

3.28**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”.

2 Modifications to 5.1.6, Flush pipes

Replace Table 2 with the following one:

“

Designation	Symbol	Dimension mm	Remarks
Outside diameter inlet	b	32 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of design A
		50 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of designs B1 and B2
Inside diameter	c	50 $\begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$	For flush pipes of design C
Outside diameter at outlet WC	e	32 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of design A
		44 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of design B1
		40 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of design B2
		45 $\begin{smallmatrix} +0,5 \\ 0 \end{smallmatrix}$	For flush pipes of design C
Inside diameter at outlet WC	f	≥ 39	For flush pipes of designs B1, B2 and C
Height of flush pipe	h	$\geq 1\ 500$	For flush pipes of designs B1 and B2
		≥ 165	For flush pipes of designs B1 and B2
		≥ 600	
		≥ 165	For flush pipes of design C
Length	k	≥ 210	For flush pipes of designs A, B1 and B2
		≥ 180	For flush pipes of design C
Length of vertical inlet portion	m	≥ 100	For flush pipes of design A
Radius of bend	r	50 to 80	For flush pipes of design A
		≥ 15	For flush pipes of designs B1 and B2
		≥ 5	For flush pipes of design C

“

Replace the title of Figure 4 with "Design B1 and B2 flush pipes for wall-hung low-level or mid-level cisterns".

3 Modification to 5.2.3, Flush rate and impact force

Replace Table 4 with the following one:

“

Type of flushing cistern	Test height mm	Impact force N	Flush rate for complete flush l/s
Independent wall-hung low-level using flush pipe of design B1	200 ± 5	—	2,4 ± 0,2
Independent wall-hung low-level using flush pipe of design B2	330 ± 5 ^d	—	2,2 ± 0,2
Independent built-in	≥ 195 ^a	—	2,2 ± 0,2
Independent built-in	< 195 ^a	> 3,9 (defined by the maximum method) or > 3,7 (defined by the fixed time frame method)	2,2 ± 0,2
Independent wall-hung mid-level	565 ± 5	—	1,8 ^{+0,4} _{-0,1}
Independent wall-hung high-level	1 365 ± 5	—	1,8 ^{+0,4} _{-0,1}
One-piece and close-coupled	—	—	n.a. ^b
Multiple use close-coupled	—	—	min. 2,0 ^c

^a Flushing cisterns with integral flush pipes and flushing cisterns built into wall frames shall be tested as supplied by the manufacturer, regardless of the test height.
^b One-piece and close-coupled type will be tested in accordance with EN 997.
^c Independent from this value, the flushing cistern shall be tested in accordance with EN 997 with dedicated WC pans specified by the manufacturer of multiple close-coupled flushing cisterns.
^d This test height is valid for flush pipe of design B2 with outside diameter at outlet to WC of 40 ^{+0,5}₀ mm.

“

4 Modification to Clause 9, Dangerous substances

Replace the text by the following one:

“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 accessed through: <http://ec.europa.eu/enterprise/construction/cpd-ds/index.cfm>.”

5 Modification to Clause 10, Marking and product designation

Replace the whole clause with the following one:

EN 14055:2010/FprA1:2014 (E)

"

10 Marking

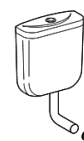
The intended use of WC and urinal flushing cisterns is personal hygiene in accordance with the scope of this standard.

NOTE The intended use is also mentioned in Annex ZA, Tables ZA.1.1, ZA.1.2 and ZA.1.3. The abbreviation "PH" for the intended use personal hygiene 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 the abbreviation and the optional schematic drawing: PH

WC and urinal flushing cisterns belong always to one class and type at least. For each class and type a set of requirements to be tested (see 11.2.2) is defined. Due to this a WC and urinal flushing cistern can be described with a designation code which includes all fulfilled essential requirements.

The relevant product characteristics and the Essential Characteristics for WC and urinal flushing cisterns including their abbreviations are given in Tables 5, 6 and 7.

Table 5 — Characteristics and abbreviations for class 1 products

Abbreviations	Characteristics
EN 14055	Number of European Standard for WC and urinal flushing cisterns for product description
CL 1	WC flushing cisterns for specified flush volumes
(X/Y)	Specified flush volume 9 l, 7 l, 6 l, 5 l or 4 l and optional minimum inlet valve pressure
VR (x)	Outlet valve reliability (category I or II)
NL (z)	Noise level (group I or II)
WL	Watertightness/leaktightness
DA	Durability

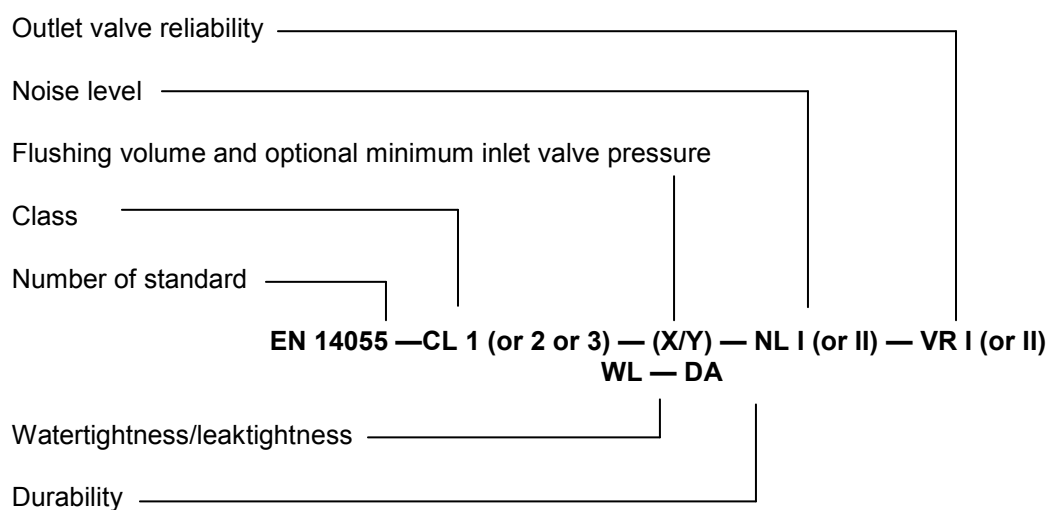
Table 6 — Characteristics and abbreviations for class 2 products

Abbreviations	Characteristics
EN 14055	Number of European Standard for WC and urinal flushing cisterns for product description
CL 2	WC flushing cisterns intended for WC suites with flush volume ≤ 6 l
VR	Outlet valve reliability
NL	Noise level
WL	Watertightness/leaktightness
DA	Durability

Table 7 — Characteristics and abbreviations for class 3 products

Abbreviations	Characteristics
EN 14055	Number of European Standard for WC and urinal flushing cisterns for product description
CL 3	Class 1 flushing cistern intended for urinals for flush volume < 5 l and flush rate from 0,4 l/s to 0,6 l/s
(X/Y)	Specified flush volume 9 l, 7 l, 6 l, 5 l or 4 l and optional minimum inlet valve pressure
VR (x)	Outlet valve reliability (category I or II)
NL (z)	Noise level (group I or II)
WL	Watertightness/leaktightness
DA	Durability

All WC and urinal flushing cisterns shall be designated in accordance with the following system:



The declaration of the characteristics of the second line is considered being covered by the declaration of the relevant class. However, the characteristics should be listed when one of those characteristics is not declared.

EN 14055:2010/FprA1:2014 (E)

EXAMPLE 4 Class 1 WC flushing cistern providing a flush volume of 6 l with a classified inlet valve having a noise level of group I and with an outlet valve providing reliability of category I.

EN 14055 — CL 1 — 6 — NL I — VR I

EXAMPLE 5 Class 2 WC flushing cistern for use with a WC pan(s) specified by the manufacturer to form a WC suite for which the manufacturer has exercised the NPD option for noise level.

EN 14055 — CL 2 — NL/NPD

EXAMPLE 6 Class 3 urinal flushing cistern providing a flush volume of 5 l at an inlet valve pressure of minimum 0,05 MPa (0,5 bar) with a classified inlet valve having a noise level of group I and with an outlet valve providing reliability of category I.

EN 14055 — CL 3 — 5/0,5 — NL I — VR I

”

6 Modification to Clause 11, Evaluation of conformity

Replace the whole clause with the following one:

“

11 Assessment and verification of constancy of performance – AVCP

11.1 General

The compliance of WC and urinal flushing cisterns 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 11.2);
- factory production control by the manufacturer (FPC), including product assessment (see 11.3).

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).

11.2 Type testing

11.2.1 General

All performances related to characteristics included in this standard shall be determined when the manufacturer intends to declare the respective performances unless the standard gives provisions for declaring them without performing tests. (e.g. use of previously existing data, CWFT and conventionally accepted performance).

Assessment previously performed in accordance with the provisions of this standard, may be taken into account provided that they were made to the same or a more rigorous test method, under the same AVCP system on the same product or products of similar design, construction and functionality, such that the results are applicable to the product in question.

For the purposes of assessment, the manufacturer's products may be grouped into families, where it is considered that the results for one or more characteristics from any one product within the family are representative for that same characteristics for all products within that same family.

Products may be grouped in different families for different characteristics.