



# SLOVENSKI STANDARD SIST EN 33:2019

01-julij-2019

Nadomešča:

SIST EN 33:2011

SIST EN 33:2011/AC:2014

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## WC školjke in WC naprave - Priključne mere

WC pans and WC suites - Connecting dimensions

WC-Becken und WC-Anlagen - Anschlussmaße

Cuvettes de WC à alimentation indépendante et cuvettes de WC à réservoir attenant -  
Cotes de raccordement

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**Ta slovenski standard je istoveten z: EN 33:2019**

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### **ICS:**

91.140.70      Sanitarne naprave      Sanitary installations

**SIST EN 33:2019**      **en,fr,de**

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EUROPEAN STANDARD

EN 33

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 91.140.70

Supersedes EN 33:2011

English Version

## WC pans and WC suites - Connecting dimensions

Cuvettes de WC à alimentation indépendante et  
cuvettes de WC à réservoir attenant - Cotes de  
raccordement

WC-Becken und WC-Anlagen - Anschlussmaße

This European Standard was approved by CEN on 8 March 2019.

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.

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

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

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## European foreword

This document (EN 33:2019) 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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 supersedes EN 33:2011 and EN 33:2011/AC:2013.

In comparison with the previous edition, the following technical modifications have been made:

- a measurement of  $(75 \pm 15)$  mm is added to dimension  $q_4$  in Table 4.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

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## EN 33:2019 (E)

## 1 Scope

This document specifies the connecting dimensions of WC pans and WC suites regardless of the materials used for their manufacture.

This document does not apply to siphonic action WC pans and WC suites.

NOTE 1 Other connecting dimensions are permitted, e.g. special designs of WC pans, if the manufacturer supplies or recommends the appropriate fittings.

NOTE 2 The shape of the appliance in the figures is for illustration only; it in no way prejudices the final shape of the appliance, which is left to the initiative of the manufacturer.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

## 4 Connecting dimensions (standards.iteh.ai)

### 4.1 Inlet of WC pans with independent water supply

The connecting dimensions of inlets of WC pans with independent water supply shall comply with the dimensions given in Tables 1 and 2.

**Table 1 — Inlet dimensions**

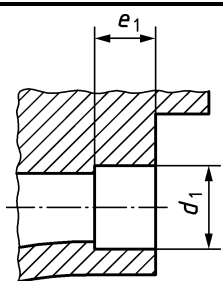
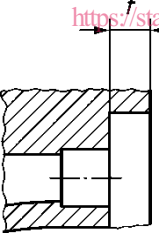
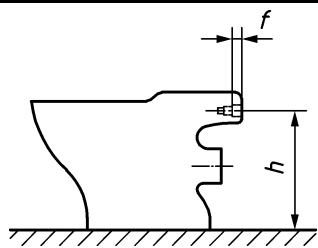
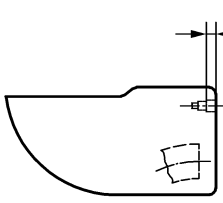
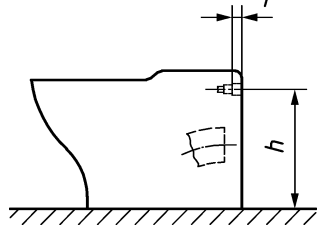
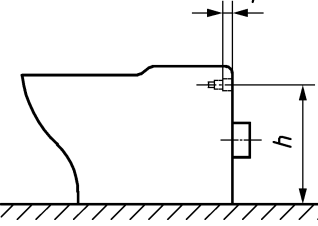
Designation	Symbol	Dimensions mm	Figure
Internal diameter of inlet measured over the initial 25 mm of $e_1$	$d_1$	$55^{+3}_{-1}$	
Depth of the internal cylindrical part in front of the shoulder	$e_1$	$\geq 25$	

Table 2 — Position of inlets inside the WC pans

Designation	Symbol	Dimensions mm	Figure
Height of the centre of the inlet in relation to the base of the appliance NOTE Other dimensions are permissible for special needs, e.g. WC pans for children, disabled persons or comfort reasons.	$h$	$345^{+15}_{-25}$	See below
Distance from the vertical plane of the inlet to the back wall of the appliance 	$f$	0 or $\geq 15$	 Pedestal WC pan with vertical or horizontal outlet
		$\geq 15$	 Wall-hung WC pan
		$\geq 15$	 Back-to-wall WC pan with concealed outlet
		$\leq 45$	 Back-to-wall WC pan with exposed outlet

## 4.2 Outlets of WC pans and WC suites

The connecting dimensions of WC pans outlets shall comply with the dimensions given in Tables 3 to 6.

**Table 3 — Outlet dimensions**

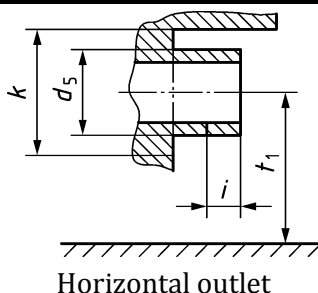
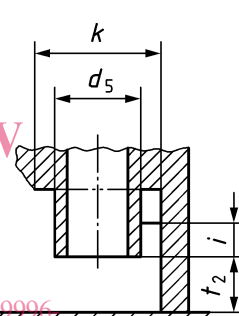
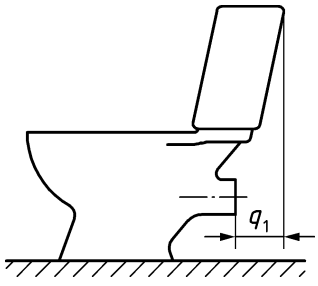
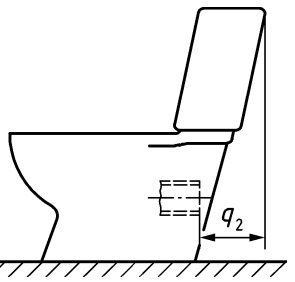
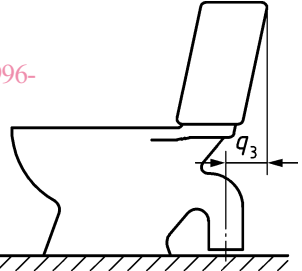
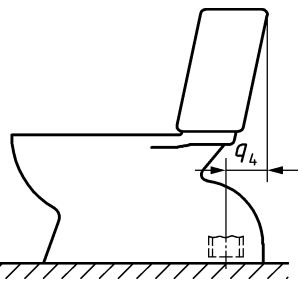
Designation	Symbol	Dimension s mm	Figure
External diameter of the outlet	$d_5$	$102 \pm 5$	 <p>Horizontal outlet</p>
External cylindrical part of the outlet without grooves	$i$	$\geq 40$	
Diameter of the free space around the outlet	$k$	$\geq 150$	
Distance between the centre line of the outlet and the base of the appliance NOTE Other connecting dimensions are permitted for specific cases as, for example, WC pans and WC suites for children, for disabled persons or for comfort reasons.	$t_1$	$180^{+15}_{-10}$	 <p>Vertical outlet</p>
Distance from the plane passing through the end of the outlet and the base of the appliance	$t_2$	$\geq 10$	



Table 4 — Pedestal WC suites

Designation	Symbol	Dimensions mm	Figure
Distance between the vertical plane passing through the end of the outlet and the part of the WC suite nearest to the wall	q <sub>1</sub>	140 ± 25	 <p>Pedestal WC suite with exposed horizontal outlet</p>
		100 ± 25	
Distance from the centre line of the outlet and the vertical plane passing through the part of the WC suite nearest to the wall	q <sub>2</sub>	≥ 115	 <p>Pedestal WC suite with concealed horizontal outlet</p>
		75 ± 15	
Distance from the centre line of the outlet and the vertical plane passing through the part of the WC suite nearest to the wall	q <sub>3</sub>	120 ± 25	 <p>Pedestal WC suite with exposed vertical outlet</p>
		225 ± 25	
		75 ± 15	
Distance from the centre line of the outlet and the vertical plane passing through the part of the WC suite nearest to the wall	q <sub>4</sub>	120 ± 25	 <p>Pedestal WC suite with concealed vertical outlet</p>
		225 ± 25	
		75 ± 15	

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