



**Test Report**

No.: NBHL2304006924PL

Date: MAY 19, 2023

Page: 1 of 12

HAO CANH PORCELAIN PRODUCTION AND TRADING CO.,LTD  
TIEN HAI INDUSTRIAL ZONE, DONG CO COMMUNE, TIEN HAI DISTRICT, THAI BINH  
PROVINCE, VIETNAM

The following sample(s) was/were submitted and identified by the client as:

Sample Description : WALL HUNG TOILET CT01

Style No. : CT01

Item No. : CT01

Supplier : HAO CANH PORCELAIN PRODUCTION AND TRADING CO.,LTD

Manufacturer : HAO CANH PORCELAIN PRODUCTION AND TRADING CO.,LTD

Country of Origin : VIET NAM

Country of Destination : EUROPE

\*\*\*\*\*

Sample Receiving Date : APR. 26, 2023

Testing Period : APR. 26, 2023 TO MAY 19, 2023

Testing Lab Address : 2F No. 7 Building, Lingyun Industry Park, No.1177 Lingyun Road,  
Ningbo National Hi-Tech Zone, Ningbo, China

<u>Test Requested</u>	<u>Result</u>
1. EN 997:2018 WC PANS AND WC SUITES WITH INTEGRAL TRAP (TYPE 1)	<u>Pass</u>
2. EN 33:2019 WC PANS AND WC SUITES - CONNECTING DIMENSIONS	<u>Pass</u>

Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Testing results only apply to the sample as received.

The declaration of conformity is only based on the actual value of laboratory activity while measurement uncertainty of the results is not taken into account.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Peter Xi  
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Ningbo Branch Haluimes

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■ **General product information**

**Manufactured from HAO CANH PORCELAIN PRODUCTION AND TRADING CO.,LTD  
THE SAMPLE SUBMITTED WAS A WALL HUNG TOILET, MADE OF WHITE CERAMIC. WITH  
HORIZONTAL WASTE OUTLE, TYPE 1, FLUSH VOLUME: FULL FLUSH: 6L, REDUCED FLUSH:  
3L.**

**Style No.: CT01**

■ **Copy of marking plate and summary of test results (information/comments):**



Hao Canh Porcelain Production and Trading Co.,Ltd  
Tien Hai industrial zone, Dong Co commune, Tien Hai district,  
Thai Binh province, Vietnam  
23  
Declaration of Performance XXXXXX  
EN 997 - CL 1 - 6A

Intended use: personal hygiene

Product type: Wall hung toilet CT01

Capacity of flushing water:	Pass
Backflow prevention (of foul air):	Pass
Cleanability:	Pass
Load resistance:	Pass
Durability:	Pass

**CE marking on the product**

■ **Summary of testing:**

**The submitted sample was tested and found to comply with applicable requirements of  
EN 997:2018 and EN 33:2019.**



**Test Conducted:**

- EN 997:2018 WC Pans and WC Suites with Integral Trap (Type 1)**
- EN 33:2019 WC pans and WC suites - Connecting dimensions**

Sample size: 1 piece

Clause	Test Method/ Requirement	Result	Rating																																				
<b>1. EN 997:2018</b>																																							
5 Functional characteristics and test methods for type 1 products																																							
5.1 Depth of water seal	When tested in accordance with standard, the depth of the water seal shall be not less than 50 mm.	Depth of water seal: 58 mm	Pass																																				
5.2 Flushing characteristics																																							
5.2.1 General	<p>Table 1 correlates the flushing characteristics to the WC pan sub-type and flushing volume.</p> <p>Table 1 — Flushing characteristics</p> <table border="1"> <thead> <tr> <th>Sub-type of WC pan in accordance with Table 2 and Table 3</th> <th>Wash of bowl (5.2.2)</th> <th>Flushing of toilet paper (5.2.3)</th> <th>Flushing of 50 plastic balls (5.2.4)</th> <th>Oversplashing (5.2.5)</th> <th>After-flush volume (5.2.6)</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>7</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>6</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>5</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>4</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>	Sub-type of WC pan in accordance with Table 2 and Table 3	Wash of bowl (5.2.2)	Flushing of toilet paper (5.2.3)	Flushing of 50 plastic balls (5.2.4)	Oversplashing (5.2.5)	After-flush volume (5.2.6)	9	X	X	X	X		7	X	X	X	X		6	X	X		X	X	5	X	X		X	X	4	X	X	X	X		Sub-type of WC pan: 6	Pass
Sub-type of WC pan in accordance with Table 2 and Table 3	Wash of bowl (5.2.2)	Flushing of toilet paper (5.2.3)	Flushing of 50 plastic balls (5.2.4)	Oversplashing (5.2.5)	After-flush volume (5.2.6)																																		
9	X	X	X	X																																			
7	X	X	X	X																																			
6	X	X		X	X																																		
5	X	X		X	X																																		
4	X	X	X	X																																			
5.2.2 Wash of bowl	<p>When tested in accordance with standard, the arithmetic average of any unflushed area below the rim and above the surface of the water in the trap shall not be more than 50 cm<sup>2</sup> after five flushing operations.</p> <p>In case of rimless WCs, the surface to be tested is the area between the water surface and a horizontal line 85 mm below the top edge of the bowl.</p>	See Result 1 See Remark 1	Pass																																				
5.2.3 Flushing of toilet paper	<p>When tested in accordance with standard, 12 sheets of toilet paper shall be flushed out of the WC pan a minimum of 4 times out of five tests.</p> <p>For baby WC pans, 6 sheets of toilet paper shall be flushed out of the WC pan a minimum of 4 times out of five tests.</p>	See Result 2 See Remark 1	Pass																																				
5.2.4 Flushing of fifty small plastic balls	When tested in accordance with standard after five tests, each with 50 balls, a minimum of 85% the balls shall be flushed out of the WC pan.	/	N/A																																				
5.2.5 Oversplashing	When tested in accordance with standard, flushing water shall not splash beyond the rim of the bowl and wet the floor. Only a few small drops are permissible.	See Remark 1	Pass																																				
5.2.6 After-flush volume	When tested in accordance with standard, an after-flush volume of 2.5 L or 2.8 L as appropriate is required.	See Result 3 See Remark 1	Pass																																				



SGS-CSTC (Shanghai) Technical Services Co., Ltd.  
Ningbo Branch Haluimes

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Clause	Test Method/ Requirement	Result	Rating
5.3 Water absorption	When tested in accordance with standard, the arithmetic average for water absorption of glazed ceramic WC pans shall not exceed 0.5% by mass.	Water absorption: 0.3%	Pass
5.4 Static load	When tested in accordance with standard, wall-hung and non-ceramic WC pans and WC suites shall withstand a force of 4,00 ± 0.05 kN without showing any evidence of cracking or permanent deformation. Experience has shown that pedestal ceramic WC pans and WC suites comply with this characteristic.	Not show any evidence of cracking or permanent deformation	Pass
5.5 Additional characteristics of flushing cisterns for close-coupled suites and one-piece WCs			
5.5.1 General	If close-coupled suites and one-piece WCs comprising a flushing cistern and a WC pan supplied or specified by the manufacturer as a unit, the following characteristics shall be fulfilled.	No flushing cisterns	N/A
5.5.2 Inlet valve of the flushing cistern	Flushing cisterns shall have an inlet valve complying with EN 14124.	No flushing cisterns	N/A
5.5.3 Supply piping	All materials of the supply piping which could be in contact with drinking water shall not be danger to health. The use of elastomeric flexible supply hoses complying with EN 13618 is permissible inside the assembly.	Not provided	N/A
5.5.4 Flush volume(s) of the flushing cistern	The flush volume(s) for one-piece and close-coupled flushing cisterns supplied with a WC pan shall conform to the value(s) specified by the manufacturer according to Table 3, when measured as described in 5.7.5.1. Flushing cisterns or their components shall be marked to allow the correct volume(s) of flush to be achieved.	No flushing cisterns	N/A
5.5.5 Leak-tightness between flushing cistern and bowl	When tested in accordance with standard, there shall be no leakage between the WC pan and the flushing cistern.	No flushing cisterns	N/A
5.5.6 Outlet valve leak-tightness	When tested in accordance with standard, the outlet shall not show any leakage greater than three drops within 15 min.	No flushing cisterns	N/A
5.5.7 Outlet valve reliability	When tested in accordance with standard, the outlet mechanism functions shall be ensured. The flushing device shall not show any failure or permanent distortion of any component including linkages that prevents normal operation of the mechanism. The outlet of the flushing device shall not show leakage greater than three drops within 15 min.	No flushing cisterns	N/A
5.5.8 Overflow	When tested as described in standard, the overflow shall meet the requirements specified below: a) The distance between the maximum water level and the overflow level shall be ≤ 20 mm.	No flushing cisterns	N/A



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Clause	Test Method/ Requirement	Result	Rating																																													
	b) The distance between the critical water level and the overflow level shall be $\leq 10$ mm. c) The distance between the meniscus level and the overflow level shall be $\leq 5$ mm.																																															
5.5.9 Safety margin – dimension “c”	When tested as described in standard, dimension “c” corresponding to the distance between the overflowing level and the maximum nominal water level indicated by the manufacturer shall be $\geq 20$ mm.	No flushing cisterns	N/A																																													
5.5.10 Safety margin – dimension “a”	When tested as described in standard, the dimension “a” between the overflow level and the lowest point of the air inlet orifice of the inlet valve shall be 20 mm minimum as required in EN 1717, to prevent backflow. In the case of an adjustable overflow, the adjustment shall provide a dimension “a” of 20 mm minimum.	No flushing cisterns	N/A																																													
5.6 Durability	Type 1 products conforming to the requirements of 5.2 to 5.4 and 5.5.5 to 5.5.10 are deemed to be durable.	/	Pass																																													
<b>5.8 Sub-types of independent WC pans, close-coupled suites and one-piece WCs</b>																																																
5.8.1 Nominal flush volume	<p>Sub-type and test volume for a full flush shall be defined by the manufacturer. Baby WC pans belong to sub-type 5 or sub-type 4. The nominal flush volume of independent WC pans shall correspond to one of the sub-types given in Table2.</p> <p>Table 2 — Sub-types of independent WC pans</p> <table border="1"> <thead> <tr> <th>Sub-type</th> <th>Nominal flush volume</th> <th>Test flush volume</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td>1</td> </tr> <tr> <td>9</td> <td>9</td> <td><math>9_{-0.1}^0</math></td> </tr> <tr> <td>7</td> <td>7</td> <td><math>7_{-0.1}^0</math></td> </tr> <tr> <td>6</td> <td>6</td> <td><math>6_{-0.1}^0</math></td> </tr> <tr> <td>5</td> <td>5</td> <td><math>5_{-0.5}^0</math></td> </tr> <tr> <td>4</td> <td>4</td> <td><math>4_{-0.1}^0</math></td> </tr> </tbody> </table> <p>The nominal flush volume of close-coupled suites and one-piece WC pans shall correspond to one of the sub-types given in Table 3.</p> <p>Table 3 — Sub-types of close-coupled suites and one-piece WC pans</p> <table border="1"> <thead> <tr> <th>Sub-type</th> <th>Nominal flush volume</th> <th>Test flush volume</th> <th>Reduced flush volume</th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>9</td> <td>9</td> <td><math>9_{-1.4}^0</math></td> <td rowspan="5">Maximum 2/3 of the nominal flush volume as specified by the manufacturer</td> </tr> <tr> <td>7</td> <td>7</td> <td><math>7 \pm 0.5</math></td> </tr> <tr> <td>6</td> <td>6</td> <td><math>6_{-0.5}^{+0.4}</math></td> </tr> <tr> <td>5</td> <td>5</td> <td><math>5_{-0.5}^{+0.4}</math></td> </tr> <tr> <td>4</td> <td>4</td> <td><math>4_{-0.5}^{-1.0}</math></td> </tr> </tbody> </table>	Sub-type	Nominal flush volume	Test flush volume		1	1	9	9	$9_{-0.1}^0$	7	7	$7_{-0.1}^0$	6	6	$6_{-0.1}^0$	5	5	$5_{-0.5}^0$	4	4	$4_{-0.1}^0$	Sub-type	Nominal flush volume	Test flush volume	Reduced flush volume		1	1	1	9	9	$9_{-1.4}^0$	Maximum 2/3 of the nominal flush volume as specified by the manufacturer	7	7	$7 \pm 0.5$	6	6	$6_{-0.5}^{+0.4}$	5	5	$5_{-0.5}^{+0.4}$	4	4	$4_{-0.5}^{-1.0}$	<p>Independent WC pan</p> <p>Claim: 3L/6L</p> <p>Actual: 3.0L/6.0L</p> <p>See Result 4</p> <p>See Remark 1</p>	Pass
Sub-type	Nominal flush volume	Test flush volume																																														
	1	1																																														
9	9	$9_{-0.1}^0$																																														
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Sub-type	Nominal flush volume	Test flush volume	Reduced flush volume																																													
	1	1	1																																													
9	9	$9_{-1.4}^0$	Maximum 2/3 of the nominal flush volume as specified by the manufacturer																																													
7	7	$7 \pm 0.5$																																														
6	6	$6_{-0.5}^{+0.4}$																																														
5	5	$5_{-0.5}^{+0.4}$																																														
4	4	$4_{-0.5}^{-1.0}$																																														
5.8.2 Flushing devices	Independent WC pans shall be designed to be flushed by one or both of the following separate flushing devices:	Independent WC pan Type A	Pass																																													




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Clause	Test Method/ Requirement	Result	Rating
	Valve-type cistern Type A Pressure flush valve Type C		
5.8.3 Verification of sub-types	1) Connect the flushing cistern to a water supply of (0,2 ± 0.1) MPa and adjust the flush volume in accordance with the manufacturer's instructions. 2) Flush the flushing cistern 3 times and measure the flush volume to accuracy of ± 0.1 L. The water supply shall be closed during the flushing operation. 3) The WC pan shall be classified on the arithmetic average resulting from three flushing operations referring to Table 2 or Table 3. 4) The flushing tests in accordance with this standard shall be carried out on the basis of the WC pan sub-type (see Table 1).	See Result 4  See Remark 1	Pass
7 Dangerous substances	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 provisions in the place of use.  NOTE: An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through: <a href="https://ec.europa.eu/growth/tools-databases/cp-ds_en">https://ec.europa.eu/growth/tools-databases/cp-ds_en</a> .	/	N/A
8 Marking	The intended use of close-coupled suites, one-piece and independent WC pans with integral trap is personal hygiene in accordance with the scope of this standard.  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    Close-coupled suites, one-piece and independent WC pans with integral trap belong always to one type and sub-type at least. For each type and sub-type a set of characteristics to be tested (see 9.2.2) is defined. Due to this a close-coupled	CE label was provided	Pass



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Clause	Test Method/ Requirement	Result	Rating																																														
	<p>suite, one-piece and independent WC pan with integral trap can be described with a designation code which includes all fulfilled essential characteristics.</p> <p>The relevant product characteristics and the Essential Characteristics for close-coupled suites, one-piece and independent WC pans with integral trap including their abbreviations are given in Tables 4 and 5.</p> <p style="text-align: center;">Table 4 — Characteristics and abbreviations for type 1 products</p> <table border="1"> <thead> <tr> <th>Abbreviation</th> <th>Characteristics</th> </tr> </thead> <tbody> <tr> <td>EN 997</td> <td>Number of European Standard for WCs and WC suites for product description</td> </tr> <tr> <td>CL 1 - X</td> <td>Type 1 product with fixed flush volumes (9 l, 7 l, 6 l, 5 l or 4 l)</td> </tr> <tr> <td>(Y)</td> <td>Minimum supply pressure (optionally)</td> </tr> <tr> <td>A</td> <td>Flushing cistern</td> </tr> <tr> <td>C</td> <td>Pressure flush valve</td> </tr> <tr> <td>WL</td> <td>Water tightness / leak tightness</td> </tr> <tr> <td>CF</td> <td>Capacity of flush</td> </tr> <tr> <td>BP</td> <td>Backflow prevention (foul air)</td> </tr> <tr> <td>CA</td> <td>Cleanability</td> </tr> <tr> <td>VR(x)</td> <td>Valve reliability (type 1 close-coupled suites and one-piece WC pans only - category I or II)</td> </tr> <tr> <td>LR</td> <td>Load resistance</td> </tr> <tr> <td>DA</td> <td>Durability</td> </tr> </tbody> </table> <p style="text-align: center;">Table 5 — Characteristics and abbreviations for type 2 products</p> <table border="1"> <thead> <tr> <th>Abbreviation</th> <th>Characteristics</th> </tr> </thead> <tbody> <tr> <td>EN 997</td> <td>Number of European Standard for WCs and WC suites for product description</td> </tr> <tr> <td>CL 2 - Z</td> <td>Type 2 product with flush volume ≤ 6 l and optionally minimum full flush volume (as Z)</td> </tr> <tr> <td>WL</td> <td>Water tightness / leak tightness</td> </tr> <tr> <td>CF</td> <td>Capacity of flush</td> </tr> <tr> <td>BP</td> <td>Backflow prevention (foul air)</td> </tr> <tr> <td>VR</td> <td>Valve reliability</td> </tr> <tr> <td>CA</td> <td>Cleanability</td> </tr> <tr> <td>LR</td> <td>Load resistance</td> </tr> <tr> <td>DA</td> <td>Durability</td> </tr> </tbody> </table> <p>All close-coupled suites, one-piece and independent WC pans with integral trap shall be designated in accordance with the following system:</p>	Abbreviation	Characteristics	EN 997	Number of European Standard for WCs and WC suites for product description	CL 1 - X	Type 1 product with fixed flush volumes (9 l, 7 l, 6 l, 5 l or 4 l)	(Y)	Minimum supply pressure (optionally)	A	Flushing cistern	C	Pressure flush valve	WL	Water tightness / leak tightness	CF	Capacity of flush	BP	Backflow prevention (foul air)	CA	Cleanability	VR(x)	Valve reliability (type 1 close-coupled suites and one-piece WC pans only - category I or II)	LR	Load resistance	DA	Durability	Abbreviation	Characteristics	EN 997	Number of European Standard for WCs and WC suites for product description	CL 2 - Z	Type 2 product with flush volume ≤ 6 l and optionally minimum full flush volume (as Z)	WL	Water tightness / leak tightness	CF	Capacity of flush	BP	Backflow prevention (foul air)	VR	Valve reliability	CA	Cleanability	LR	Load resistance	DA	Durability		
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Clause	Test Method/ Requirement	Result	Rating
	Valve reliability (category I or II) — Flushing device and optionally minimum supply pressure — Minimum full flush volume, for type 2 optional — Flush volume for type I — Type of product — Number of standard — EN 997 — CL1 (or 2) — (X or Z) — A (or C) / Y — VR I (or II) WL — CF — BP — CA — VR — LR — DA Watertightness / leaktightness — Capacity of flush — Backflow prevention (of foul air) — Cleanability — Valve reliability — Load resistance — Durability —		
<b>2. EN 33:2019</b>			
<b>4. Connecting dimensions</b>			
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.	See Result 5	Pass
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.	See Result 6	Pass
5 Fixing dimensions for wall-hung WC pans and WC suites	The fixing dimensions for wall-hung WC pans and WC suites shall comply with the dimensions given in Table 7 and Figure 1.	See Result 7	Pass
6 Fixing dimensions for the seat	If the WC pan manufacturer does not provide a WC seat with the WC pan or does not recommend a suitable WC seat model, the fixing dimensions for the WC seat shall comply with the dimensions given in Table 8 and Figure 2. The angle is defined to ensure the stable position of the WC seat and its lid in the upright position (see Figures 3a to 3e).	See Result 8	Pass

**Remark:**

1. The flushing device was provided by SGS lab for flush volume and flush function tests.
2. N/A = Not applicable.



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# Test Report

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## Result 1 Wash of Bowl (cm<sup>2</sup>)

Flush times	1	2	3	4	5	Ave.
Unflushed Area (Requirement: ≤ 50)	0	0	0	0	0	0

## Result 2 Flushing of Toilet Paper

Flush times	1	2	3	4	5
Number Flushed out (Requirement: ≥4 times flushed out)	12	12	12	12	12

## Result 3 After-flush Volume (L)

Flush times	1	2	3	4	5	6	7	8	9	10	Ave.
After-flush Volume	3.1	3.2	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.1	3.2
Requirement:	a) in 8 out of 10 flushes all test specimens are evacuated and the after-flush volume is on each occasion ≥ 2,5 l, or b) the arithmetic average of the after-flush volume of the 10 flushing operations is ≥ 2,8 l.										

## Result 4 Flushing Volume of WC pans (L)

Flush times	1	2	3	Ave.
Full flush volume	6.0	6.0	6.0	6.0
Reduced flush volume	3.0	3.0	3.0	3.0

## Result 5 Inlet of WC pans with independent water supply

### a) Inlet dimensions

Designation	Symbol	Requirement (mm)	Result (mm)
Internal diameter of inlet measured over the initial 25 mm of e <sub>1</sub>	d <sub>1</sub>	55 <sup>+3</sup> <sub>-1</sub>	55
Depth of the internal cylindrical part in front of the shoulder	e <sub>1</sub>	≥25	31

### b) Position of inlets inside the WC pans

Designation	Symbol	Requirement (mm)	Result (mm)
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 <sup>+15</sup> <sub>-25</sub>	/
Distance from the vertical plane of the inlet to the back wall of the appliance	f	0 or ≥15	/
		≥15	26
		≥15	/
		≤45	/



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**Result 6 Outlets of WC pans and WC suites**
**a) Outlet dimensions**

Designation	Symbol	Requirement (mm)	Result (mm)
External diameter of the outlet	d <sub>5</sub>	102±5	98
External cylindrical part of the outlet without grooves	i	≥40	45
Diameter of the free space around the outlet	k	≥150	194
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 <sub>1</sub>	180 <sup>+15</sup> <sub>-10</sub>	/
Distance from the plane passing through the end of the outlet and the base of the appliance	t <sub>2</sub>	≥10	/

**d) Wall-hung WC suite or WC pan**

Designation	Symbol	Requirement (mm)	Result (mm)
Distance between the vertical plane of the outlet and the back of the appliance	q <sub>13</sub>	≥15	21

**Result 7: Fixing dimensions for wall-hung WC pans and WC suites**

Designation	Symbol	Requirement (mm)	Result (mm)
Horizontal distance between the centre lines of the two fixing holes	n	180±5	177
		230±5	/
Vertical distance between the centre line of the two fixing holes and the centre line of the inlet, for WC pans only	p <sub>1</sub> <sup>a</sup>	35±5	36
Vertical distance between the centre line of the two fixing holes and the centre line of the outlet hole	p <sub>2</sub> <sup>a</sup>	100±5	100
Vertical distance between the centre line of the inlet and the centre line of the outlet hole, for WC pans only	p <sub>3</sub>	135±3	136
Diameter of clear opening of fixing holes NOTE Other hole shapes are permissible.	d <sub>2</sub>	25±3	25
Thickness of the appliance around the fixing holes	v	≤80	14
		>80 <sup>b</sup>	/

a. The sum of measured p<sub>1</sub> and p<sub>2</sub> tolerances should not exceed the specified limits of p<sub>3</sub>.  
b. >80 is permissible provided that additional mounting parts are recommended or supplied by the manufacturer.

**Result 8 Fixing dimensions for the seat**

Designation	Symbol	Requirement (mm)	Result (mm)
Diameter of holes	d <sub>6</sub>	15±2	16
Distance between the centres of holes	m	155±10	153
Distance between the centre line of holes and	l	430±10	428



Designation	Symbol	Requirement (mm)	Result (mm)
the front of the bowl			
Angle between the vertical plane and the point P where an arc of length / taken from the centre line of the seat fixing holes meets the flushing cistern	α	≥8°	/
Angle between the vertical plane and the point P where an arc of length / taken from the centre line of the seat fixing holes meets the wall			9°



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**Sample Photo:**

Test sample (Front view)



Test sample (Side view)



Test sample (Top view)



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\*\*\*End of Report\*\*\*



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