

**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

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

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





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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:

Backflow prevention (of foul air):

Cleanability:

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.



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#### **Test Conducted:**

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

Sample size: 1 piece

Clause		Tes	t Method	/ Require	ment			Result	Rating
1. EN 997:2018	_								
5 Functional cha									
5.1 Depth of	When teste					pth of th	е	Depth of water	Pass
water seal	water seal	shall be	not less tl	nan 50 mn	n.			seal: 58 mm	
5.2 Flushing cha	aracteristics								
5.2.1 General	Table 1 co	relates t	he flushin	g characte	eristics to	the WC		Sub-type of WC	Pass
	pan sub-ty	pe and fl	ushing vo	lume.				pan: 6	
			Table 1 — Flus	hing characteristi	cs	I	1		
	Sub-type of WC pan in	Wash of	Flushing of	Flushing of	Oversplashing	After-flush			
	accordance with Table 2	bowl (5.2.2)	toilet paper (5.2.3)	50 plastic balls (5.2.4)	(5.2.5)	volume (5.2.6)			
	and Table 3		(====)	` ′		()			
	9	X	X	X	X		-		
	7	X	X X	Х	X	Х	1		
	5	X	X		X	X	1		
l	4	X	X	X	X				
5.2.2 Wash of	When teste	ed in acc	ordance v	vith standa	ard, the ar	ithmetic		See Result 1	Pass
bowl	average of	any unfl	ushed are	ea below tl	he rim and	l above t	he		
	surface of	the water	in the tra	ap shall no	t be more	than 50		See Remark 1	
	cm² after fi	ve flushir	ng operati	ions.					
	In case of i						ea		
	between th				ontal line 8	35 mm			
	below the t								
5.2.3 Flushing	When teste							See Result 2	Pass
of toilet paper	toilet paper			out of the \	NC pan a	minimun	n		
	of 4 times	out of five	e tests.					See Remark 1	
l									
	For baby V						ed		
5 0 4 EL 11	out of the V								NI/A
5.2.4 Flushing	When teste					,		/	N/A
of fifty small	each with 5			m of 85%	tne balls s	nall be			
plastic balls	flushed out					4		0 0	Dara
5.2.5	When teste							See Remark 1	Pass
Oversplashing	shall not sp	nasn bey	ona the r	im of the K	oowi and v	vet the			
	floor.	omoll de	one ere r	ormiooiblo					
5.2.6 After-	Only a few					or fluck		See Result 3	Doos
5.∠.o Aπer- flush volume	When teste							See Result 3	Pass
nusti volume	volume of 2	2.3 L 0f 2	.o L as a	ppropriate	is require	u.			
								See Remark 1	



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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	Water absorption: 0.3%	Pass
5.4 Static load	shall not exceed 0.5% by mass.  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
	naracteristics of flushing cisterns for close-coupled suites and o		
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	Test Method/ Requirement				Rating
	b) The distance	e between the	critical wate	er lev	el and the		
	overflow level	shall be ≤ 10 m	nm.				
	c) The distanc	e between the	meniscus le	evel a	and the		
	overflow level	shall be ≤ 5 mr	n.				
5.5.9 Safety	When tested a	s described in	standard, c	dimen	nsion "c"	No flushing	N/A
margin –	corresponding	to the distance	e between t	the ov	verflowing level	cisterns	
dimension "c"		num nominal w					
		shall be ≥ 20 m			,		
5.5.10 Safety	When tested a	s described in	standard, t	he di	mension "a"	No flushing	N/A
margin –		verflow level ar				cisterns	
dimension "a"		the inlet valve s					
	required in EN	1717, to preve	ent backflov	N.			
		an adjustable d			ustment shall		
		ension " <i>a</i> " of 20					
5.6 Durability		ts conforming			nts of 5.2 to	1	Pass
		o 5.5.10 are de					
5.8 Sub-types of						/Cs	1
5.8.1 Nominal		test volume for				Independent WC	Pass
flush volume	the manufactu					pan	
		s belong to sub	-type 5 or s	sub-tv	vpe 4.	F	
		ush volume of				Claim: 3L/6L	
		one of the sub-					
		Table 2 — Sub-types				Actual: 3.0L/6.0L	
	Sub-type	Nominal flush	volume	Tes	t flush volume		
		1			1	See Result 4	
	9	9			9_0,1		
	7	7			7_0,1	See Remark 1	
	6	6			6_0,1		
	5	5			5 <sub>-0,5</sub>		
	4	4			4_0,1		
	The nominal fl	ush volume of	close-coupl	led su	uites and one-		
	piece WC pan	s shall corresp	ond to one	of the	e sub-types		
	given in Table						
		— Sub-types of close-co	upled suites and on	ne-piece			
	Sub-type	Nominal flush volume	Test flush volu	ume	Reduced flush volume		
		1	1		1		
	9	9	$9_{-1,4}^{0}$				
	7	7	7 ± 0,5		Maximum 2/3 of the		
	6	6	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
	5	5	$5^{+0,4}_{-0,5}$		manufacturer		
	4	4	$4^{+1,0}_{-0,5}$				
5.8.2 Flushing	Independent V	VC pans shall b	oe designed	d to b	e flushed by	Independent WC	Pass
devices	one or both of	the following s	eparate flus	shing	devices:	pan	
						Type A	
<u> </u>	<u> </u>					1 . 7 6 2	1



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1-5F Wesk No.4 Bulang, Lingun Inday Pat, No.1177 Lingun Inday Pat, N



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Clause	Test Method/ Requirement	Result	Rating
	Valve-type cistern Type A		
5.8.3	Pressure flush valve Type C  1) Connect the flushing cistern to a water supply of (0,2 ±	See Result 4	Pass
Verification of	0.1) MPa and adjust the flush volume in accordance with	See Result 4	F455
sub-types	the manufacturer's instructions.	See Remark 1	
,,	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).		
7 Dangerous	National regulations on dangerous substances may require	1	N/A
substances	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: https://ec.europa.eu/growth/tools-databases/cp-ds_en.		
8 Marking	The intended use of close-coupled suites, one-piece and	CE label was	Pass
o maning	independent WC pans with integral trap is personal hygiene	provided	1 400
	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		
	TO		
	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		
	Do tostou (see 3.2.2) is defined. Due to this a close-coupled	l	I .



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use		Test Method/ Requirement	Result	Rating
	suite, one	piece and independent WC pan with integral trap		
	can be			
		with a designation code which includes all fulfilled		
		characteristics.		
	Coociilai	onaracteristics.		
	The releva	ant product characteristics and the Essential		
		istics for close-coupled suites, one-piece and		
		ent WC pans with integral trap including their		
	appreviati	ons are given in Tables 4 and 5.  Table 4 — Characteristics and abbreviations for type 1 products		
lг	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		
	С	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 l or ll)		
	LR	Load resistance		
	DA	Durability		
	Abbreviatio	Table 5 — Characteristics and abbreviations for type 2 products  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		
1	All close-c	coupled suites, one-piece and independent WC		
		integral trap shall be designated in accordance		
	pans with	integral trap shall be designated in accordance		I



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Clause	Test Method/ Requirement	Result	Rating
	Valve reliability (category I or II)		
	Flushing device and optinally 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		
0 FN 22-2040	Durability —		
2. EN 33:2019 4. Connecting di	moneione		
4.1 Inlet of WC	The connecting dimensions of inlets of WC pans with	See Result 5	Pass
pans with	independent water supply shall comply with the dimensions	Coortoodito	1 400
independent	given in Tables 1 and 2.		
water supply			
4.2 Outlets of	The connecting dimensions of WC pans outlets shall	See Result 6	Pass
WC pans and	comply with the dimensions given in Tables 3 to 6.		
WC suites	The fiving disconsions for well house MC name and MC	See Result 7	Dana
5 Fixing dimensions for	The fixing dimensions for wall-hung WC pans and WC suites shall comply with the dimensions given in Table 7	See Result /	Pass
wall-hung WC	and Figure 1.		
pans and WC			
suites			
6 Fixing	If the WC pan manufacturer does not provide a WC seat	See Result 8	Pass
dimensions for	with the WC pan or does not recommend a suitable WC		
the seat	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).		

## 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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Result 1 Wash of Bowl (cm²)

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

Result 2 Flushing of Toilet Paper

result & i lusining of i	onet i apei				
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)

ivegair a Witer-iir	1311 <b>V</b> OIC	41116 (E <i>)</i>									
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

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 e1	d <sub>1</sub>	55+3	55
Depth of the internal cylindrical part in front of the shoulder	<b>e</b> 1	≥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>	1
Distance from the vertical plane of the inlet to	f	0 or ≥15	/
the back wall of the appliance		≥15	26
		≥15	1
		≤45	1



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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	<b>d</b> 5	102±5	98
External cylindrical part of the outlet without	i	≥40	45
grooves			
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>	1
Distance from the plane passing through the end of the outlet and the base of the appliance	t <sub>2</sub>	≥10	1

d) Wall-hung WC suite or WC pan

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

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	n	180±5	177
the two fixing holes		230±5	1
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 nlet and the centre line of the outlet hole, for WC pans only	рз	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	V	≤80	14
noles		>80 b	1

a. The sum of measured  $p_1$  and  $p_2$  tolerances should not exceed the specified limits of  $p_3$ .

#### 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	I	430±10	428



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b. >80 is permissible provided that additional mounting parts are recommended or supplied by the manufacturer.



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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°	1
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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