

Test Report	No.: SHHL1807038189CE	Date: AUG. 01, 2018	Page: 1 of 12
CORRAVENI INDUSTRI	ES CO., LTD.		
NO.3, LANE 1473, ZHEN	IGUANG ROAD, SHANGHAI, CH	INA	

The following sample(s) was/were submitted and identified by the client as: Sample Description : CLOSE-COUPLED CERAMIC TOILET, P-TRAP Style No. : PO121-P2 : PRC Country of Origin Sample Receiving Date : JUL. 13, 2018 **Testing Period** : JUL. 13, 2018 TO AUG. 01, 2018 **Testing Location** : 3RD BUILDING, LANE 3999, XIUPU ROAD, PUDONG NEW AREA, SHANGHAI **Test Performed** : SELECTED TEST(S) AS REQUESTED BY APPLICANT **Test Requested** : 1. EN 997:2012+A1:2015 WC PANS AND WC SUITES WITH INTEGRAL TRAP (CLASS 1) 2. EN 33:2011 WC PANS AND WC SUITES -CONNECTING DIMENSIONS : FOR FURTHER DETAILS, PLEASE REFER TO THE Test Result(s) FOLLOWING PAGE(S) Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Yomoro Gu Authorized Signatory



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General product information

Manufactured from CORRAVENI INDUSTRIES CO., LTD. THE SAMPLE SUBMITTED WAS A CLOSE COUPLED WC SUITES, MADE OF WHITE CERAMIC. WITH HORIZONTAL WASTE OUTLET, CLASS 1, FLUSH VOLUME: FULL FLUSH: 6L, REDUCED FLUSH: 3L.

Style No.: PO121-P2

opy of mai	king plate and summary of test results (info	rmation/comments):
	CORRAVENI INDUSTRIES CO	
	NO. 3, LANE 1473, ZHENGUANG ROAD, S	SHANGHAI, CHINA
	Declaration of Performance DOP1807	7-PO121-S2
	EN 997:2012+A1:2015-CL1 -	- 6A
	Intended use: personal hygie	ene
	Product type: WC pan and WC suite PO121-I	P2
	Capacity of flushing water:	Pass
	Backflow prevention (of foul air):	Pass
	Cleanability:	Pass
	Load resistance: Valve reliability:	Pass Pass
	Water/leak tightness:	Pass
	water/real lightliess.	1 0 2 2

Summary of testing:

The submitted samples were tested and found to comply with applicable requirements of EN 997:2012+A1:2015 and EN 33:2011.





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Test Conducted:

1. EN 997:2012+A1:2015 WC Pans and WC Suites with Integral Trap (Class 1)

2. EN 33:2011 WC pans and WC suites - Connecting dimensions

Sample Size: 1 piece

Clause		Test Method/	Requireme	ent		Result	Rating
1. EN 997:2012			•				
	uirements and test i	1					
5.1 Depth of	When tested in ac			epth of the	water	Water Seal:	Pass
Water Seal	seal shall be not le	ss than 50 mr	n.			64mm	
5.2 Flushing rec							
5.2.1 General	Table1 correlates	he flushing re	quirements	to the WC p	oan type	Type of WC	Pass
	and flushing volum	e.				pan: 6	
		Table 1 — Flus	hing requirements				
	Type of WC pan in accordance with Table 2 and Table 3 (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	х	Х	Х			
	7 X	x x	Х	X X	~		
	5 X	× ×		x	X X		
	4 X	Х	Х	Х			
5.2.2 Wash of Bowl 5.2.3 Flushing	When tested in acc of any unflushed a the water in the tra flushing operations In case of rimless between the water the top edge of the When tested in acc	rea below the p shall not be s. WCs, the surfa surface and a bowl. cordance with	rim and abo more than ace to be te a horizontal 5.7.2.4, 12	ove the surf 50 cm ² after sted is the a line 85 mm sheets of to	ace of five area below	See Result 1 See Result 2	Pass Pass
of Toilet Paper	paper shall be flus out of five tests. For baby WC pans of the WC pan a m When tested in acc	, 6 sheets of t inimum of 4 ti	hed out		N/A		
5.2.4 Flushing of Fifty Small Plastic Balls	with 50 balls, a min the WC pan.	nimum of 85%	the balls sh	nall be flush	ed out of	/	N/A
5.2.5 Over-	When tested in ac	cordance with	5.7.2.6, flue	shing water	shall not	/	Pass
Splashing	splash beyond the	rim of the boy	wl and wet th	ne floor. On	ly a few		
	small drops are pe	rmissible.					
5.2.6 After-	When tested in ac	cordance with	5.7.2.7, an	after-flush v	olume of	See Result 3	Pass
flush Volume	2.5 L or 2.8 L as a	opropriate is r	equired.				



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Clause	Test Method/ Requirement	Result	Rating
5.3 Water	When tested in accordance with 5.7.3, the arithmetic average for	Water	Pass
Absorption	water absorption of glazed ceramic WC pans shall not exceed	absorption:	
	0.5% by mass.	0.3%	_
5.4 Static	When tested in accordance with 5.7.4, wall-hung and non-	/	Pass
Load	ceramic WC pans and suites shall withstand a force of 4.00 \pm		
	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 requirement.		
5 5 Additional re	equirements of flushing cisterns for close-coupled suites and one-pie		
5.5.1 General	If close-coupled suites and one-piece WCs comprising a flushing	See Below	Pass
J.J. I General	cistern and a WC pan supplied or specified by the manufacturer	See Delow	F 855
	as a unit, the following requirements shall be fulfilled.		
5.5.2 Inlet	Flushing cisterns shall have an inlet valve complying with EN	See Remark 1	Pass
valve of the	14124.		
flushing cistern			
5.5.3 Supply	All materials of the supply piping which could be in contact with	/	N/A
piping	drinking water shall not be danger to health.		
	They shall not change the taste, aroma or visual appearance of		
	the drinking water.		
	The use of elastomeric flexible supply hoses complying with EN 13618 is permissible inside the assembly.		
5.5.4 Flush	The flush volume(s) for one-piece and close-coupled flushing	See Result 4	Pass
volume(s) of	cisterns supplied with a WC pan shall conform to the value(s)	See nesult 4	F d 55
the flushing	specified by the manufacturer according to Table 3, when		
cistern	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.		_
5.5.5 Leaktightness	When tested in accordance with 5.7.5.2, there shall be no leakage between the WC pan and the flushing cistern.	/	Pass
between	leakage between the wo pan and the hushing cistern.		
flushing			
cistern and			
bowl			
5.5.6 Outlet	When tested in accordance with 5.7.5.3, the outlet shall not	/	Pass
valve leaktightness	show any leakage greater than three drops within 15 min.		
icanigriness			



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Clause	Test Method/ Requirement	Result	Rating
5.5.7 Outlet valve reliability	When tested in accordance with 5.7.5.4, 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.	See Remark 2	Pass
5.5.8 Overflow	 When tested as described in 5.7.5.5, the overflow shall meet the requirements specified below: a) The distance between the maximum water level and the overflow level shall be ≤ 20 mm. b) The distance between the critical water level and the overflow level shall be ≤ 10 mm. c) The distance between the meniscus level and the overflow level shall be ≤ 5 mm. 	a): 9mm b): 5mm c): 2mm	Pass
5.5.9 Safety margin – dimension "c"	When tested as described in 5.7.5.6, 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.	Dimension "c": 37mm	Pass
5.5.10 Safety margin – dimension "a"	When tested as described in 5.7.5.7, the dimension " <i>a</i> " 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 " <i>a</i> " of 20 mm minimum.	Dimension "a": 22mm	Pass
5.6 Durability	Class 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
5.8 Types of ind	ependent WC pans, close-coupled suites and one-piece WCs		
5.8.1 Nominal flush volume	Type and test volume for a full flush shall be defined by the manufacturer. Baby WC pans belong to type 5 or type 4. The nominal flush volume of independent WC pans shall correspond to one of the types given in Table2.	Close-coupled WC pan Claim: 6.0L/3.0L Actual: 5.7L/3.0L See Result 4	Pass





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Clause	Test Method/ Requirement									Result	Rating
		_	Table	2 — Types of	independ	lent WC	pans				
			Туре	Nominal volur		Test volu	flush Ime				
			9 9		9 ⁰ _{-0,1}		0 0,1				
			7	7		7_) 0,1				
			6	6		6_) 0,1				
			5	5		5_)),5				
			4	4		4_) 0,1				
		ans sh	all corr	volume of clo respond to or pes of close-coup	ne of the	e types	given ir	n Tabl			
		Ту	/pe	Nominal flush volume I	Test flus	h volume	Reduce volu				
		9	9	9	9_	0 1,4					
		-	7	7	7 ±	0,5	Maximum				
			6	6	6	0,4 0,5	the nominal flush volume as				
		:	5	5	5 _	0,4 0,5	specified by the manufacturer				
			4	4	4 _	1,0 0,5					
5.8.2 Flushing devices	one or Valve- Press	r both -type c ure flu	of the f sistern sh valv		arate flu	ishing a	levices	:	-	/	N/A
5.8.3 Verification of types	 Pressure flush valve Type C 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 ±0,1L. 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 type (see Table 1). 									See Result 4	Pass





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Clause	Test Method/ Requirement	Result	Rating
7. Dangerous	National regulations on dangerous substances may require	/	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		
O. Mayleing	taking into account national provisions in the place of use.		Dasa
8. Marking	The intended use of close-coupled suites, one-piece and	CE label was	Pass
	independent WC pans with integral trap is personal hygiene in accordance with the scope of this standard.	provided	
	accordance with the scope of this standard.		
	The intended use is also mentioned in Annex ZA, Tables ZA.1.1		
	and ZA.1.2. The abbreviation "PH" for the intended use personal		
	hygiene may be used for CE-marking.		
	A schematic drawing of the product may optionally follow the		
	abbreviation for personal hygiene.		
	Close-coupled suites, one-piece and independent WC pans with		
	integral trap belong always to one class and type at least. For		
	each class and type a set of requirements to be tested (see		
	9.2.2) is defined. Due to this a close-coupled suite, one-piece		
	and independent WC pan with integral trap can be described		
	with a designation code which includes all fulfilled essential		
	requirements. 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.		
	$\frac{1}{2}$		



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		Table 4 — Characteristics and abbreviations for class 1 products		
	Abbreviation	Characteristics		
	EN 997	Number of European Standard for WCs and WC sultes for product description		
	CL1-X	Class 1 product with fixed flush volumes (91, 71, 61, 51 or 41)		
	(Y)	Minimum supply pressure (optionally)		
	A	Flushing cistem		
	С	Pressure flush valve		
	WL	Water tightness / leak tightness		
	CF	Capacity of flush		
	BP	Backflow prevention (foul air)		
	CA	Cleanability		
	VR(x)	Valve reliability (Class 1 close-coupled sultes and one-piece WC pans only – category I or II)		
	LR	Load resistance		
	DA	Durability		
	-	Table 5 — Characteristics and abbreviations for class 2 products		
	Abbreviation	Characteristics		
	EN 997	Number of European Standard for WCs and WC sultes for product description		
	CL 2 - Z	Class 2 product with flush volume < 6 I 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	upled suites, one-piece and independent WC pans		
	following sy Valve reliability (cab Flushing device and	egory I or II)		
	Number of standard	EN 397 — CL1 (or 2) — (X or Z) — A (or C) / Y — VR I (or II) WL — CF — BP — CA — VR — LR — DA		
	Watertightness / lea	Kugnoness		
	Capacity of flush -			
	Backflow prevention	(of foul air)		
	Cleanability			
	Valve reliability			
	a second and a second second			
	Load resistance			
	Durability			
	The declara	ation of the characteristics of the second line is		
	considered	being covered by the declaration of the relevant		
		•		
	class. Howe	ever, the characteristics should be listed when one of		



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Clause	Test Method/ Requirement	Result	Rating
	those characteristics is not declared.		
2. EN 33:2011		•	•
2. Connecting d	imensions		
2.1 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.	/	N/A
2.2 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 5	Pass
3 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.	/	N/A
4 Fixing dimensions for	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	See Result 6	Pass
the seat	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 Remark 3	

Remark:

1. The test report SHHL1805023412PL for inlet valve (side fill valve), issued by SGS lab on Jun. 08,

2018 was provided for test review.

2. The test report SHHL1611068947CE for outlet valve (flush valve), issued by SGS lab on Jan. 11,

2017 was provided for test review.

- 3. A suitable toilet seat was provided by client.
- 4. 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

3					
Flush times	1	2	3	4	5
Number Flushed Out (Requirement: ≥4 times flushed out)	12	11	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											
(Requirement: minimum ≥2.5 average ≥2.8)	2.9	2.8	2.9	3.0	2.9	2.8	3.0	3.0	2.9	2.9	2.9

Result 4 Flushing Volume of WC pans (L)

Flush times	1	2	3	Average
Full flush volume	5.6	5.7	5.7	5.7
Reduced flush volume	3.0	3.0	3.0	3.0



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Result 5 Outlets of WC pans and WC suites

a) Outlet dimensions

Designation	Symbol	Requirement	Result(mm)
External diameter of the outlet	d5	102±5	103
External cylindrical part of the outlet without grooves	i	≥ 40	49
Diameter of the free space around the outlet	k	≥ 150	238
Distance between the centre line of the outlet and the base of the appliance	t1	180^{+15}_{-10}	186
Distance from the plane passing through the end of the outlet and the base of the appliance	t2	≥ 10	/

b) Pedestal WC suites

Designation	Symbol	Requirement	Result(mm)
Distance between the vertical plane passing through the end of the outlet and the part of the WC suite nearest to the wall	Q ₁	140±25	142
	q ₂	100±25 ≥ 115	/ /
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 ₃	75±15 120±25	/
		225±25 120±25	
		225±25	/

Result 6 Fixing dimensions for the seat

Designation	Symbol	Requirement	Result(mm)
Diameter of holes	d ₆	15±2	15
Distance between the centres of holes	m	155±10	164
Distance between the centre line of holes and the front of the bowl	I	430±10	417
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°	10°
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			/









SGS authenticate the photo on original report only

End of Report

