

Test Report	No.: SHHG1305016507PL	Date: JUL.16,2013	Page: 1 of 10
PINGHU ZHANG'S SANI	TARYWARE FACTORY		
NO.3 XUJIA WEIR, TEAM	/I 3 .SHUGUANG VILLAGE, ZHON	GDAI TOWN, PINGHU C	CITY,
ZHEJIANG PROVINCE, (CHINA		

The following sample(s) was/were submitted and identified by the client as: Sample Description : SHOWER ENCLOSURE Style/ Item No. : ZS-7230, ZS-7183, ZS-7185, ZS-7187, ZS-7188, ZS-7209, ZS-7225, ZS-7203, ZS-9182 Sample Receiving Date : MAY.17,2013 **Testing Period** : MAY.17,2013 TO JUL.16,2013 Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT **Test Requested** : EN 14428:2004+ A1:2008 SHOWER ENCLOSURES-FUNCTIONAL REQUIREMENTS AND TEST METHODS : EN 14527:2006+A1:2010 SHOWER TRAYS FOR DOMESTIC PURPOSES Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of SGS-CSTC Ltd.

Oliva Kou Operation Manager

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Test Conducted:

1. EN 14428:2004+ A1:2008 Shower enclosures-Functional requirements and test methods

2. EN 14527:2006+A1:2010 Shower trays for domestic purposes

Sample Size: 1 piece Test Sample : ZS-7230

Clause	Test Method/ Requirement	Test Result	Rating
1.EN 14428:2004	+A1:2008		
4.1 General	 The manufacturer shall provide with each shower enclosure detailed instructions and use to include at least the following information: Description of installation with special consideration of building construction and necessary tools and sealant; Instructions for appropriate maintenance and care. 	Not provided	/
4.2 Clean ability	When tested visually, the surfaces of the components of the shower enclosures which are accessible during use and cleaning shall be free from sharp corners, edges and burrs. When using recommended cleaning agents in accordance with the manufacture's installation and care instructions, there shall be no reduction in safety or function of the shower enclosure.	/	Pass
	nce/shatter properties	<u>.</u>	
4.3.1 General	Shower enclosures may be glazed with various materials. Where glass is used, this shall meet the requirements of 4.3.2 and where plastics materials are used, they shall meet the requirements of 4.3.3.	Thermally toughened safety glass	Pass
4.3.2 Thermally Toughened Safety Glass	Thermally toughened safety glass shall meet the requirements of EN 12150-1:2000, except in respect of Clause 8 which is replaced by 5.1 of this standard. The test specimen shall be impacted, using a pointed steel tool, at a position 13 mm from the longest edge of the specimen at the mid-point of that edge, until breakage occurs. Examples of steel tools are a hammer of approximately 75 g mass, a spring loaded center punch, or other similar appliance with a hardened point. The radius of curvature of the point should be approximately 0.2 mm. The particle count shall be made in the region of coarsest fracture. The particle count shall be made by placing a mask of (50±1) mm * (50±1) mm on the test piece. The number of crack-free particles within the mask shall be counted. A particle is 'crack-free', if it does not contain any cracks which run from one edge to another. When tested, the minimum particle count shall be 40.	EN12150- 1:2000 test report was provided. See Remark 1 The particle count: 4mm: 95	Pass

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Clause	Test Method/ Requirement	Test Result	Rating
4.3.3 Plastics Materials	Carry out the test on four test pieces. For curved sheets a sample of an unformed flat sheet of the same material shall be used. Place the test piece in the frame and clamp it. When the impactor is hanging at rest, suspended from the overhead support, check that it is, at its greatest diameter, not more than 13 mm from the surface of the surface of the test piece and within 51 mm radically from the center of the test piece. Raise the impactor to a drop height of 305 mm and steady it. Releases the impactors so that it swings in a pendulum are and strike the test piece. Inspect the test piece after impact and report whether it has remained unbroken or it has broken safety. Sheets shall not break or they shall break safely.		N/A
4.4 Durability			
4.4.1 General	Products conforming to the requirements of 4.2 and 4.3 and the following are deemed to be durable.	/	Pass
4.4.2 Corrosion Resistance	All components shall consist of corrosion –proof materials or shall be corrosion-protected. All corrosion protection shall conform to the relevant requirements specified in European and International Standards.	/	Pass
4.4.3 Resistance to Chemicals and Stains	Use a separate test area of test specimen for each reagent test. On each test specimen deposit a drop of the test solution. Allow to act for a time of (2±0.25) h, at (23±5) °C. Thoroughly rinse the test specimen with deionized water and check for adverse changes in appearance by visual examination. If deterioration exists, dip the foam disc of the cleaning device in to deionized water and place it on the surface to be cleaned. Clean for 30 revolutions. Rinse with deionized water and visually examine the test area. If deterioration persists repeat the cleaning with the 12 h- alumina and reexamine the test specimen. When tested, the glazing materials shall not show permanent staining or deterioration.	No permanent staining and deterioration	Pass
4.4.4 Resistance to Wet and Dry Cycling	Place a minimum of three test specimens, (100 ± 2) mm square, vertically in a suitable carrier and place the carrier in a suitable open container. Pour 2 I of (85±1) °C water into the container to completely immerse the specimens and leave them for (8±0.25) h. Remove the test specimens from the water to an oven, (50±2) °C, for (16±0.5) h. Repeat this cycle 20 times using the same test specimens. When tested, the glazing materials shall not show any cracks, crazing or discoloration.	/	Pass

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Clause	Test M	ethod/ Require	ement		Test Result	Rating
4.4.5 Endurance	After installing the show				Not show any	Pass
	automatically opening and closing the door at a velocity of				functional	
	(15±5) cycles/min while maintaining with the door being				deterioration	
	opened/closed over a d	istance of (70±1	% of the oper	ning		
	range of the door.					
	Subject the door to 200					
	When tested, shower en			tional		
4.4.C. Stability	deterioration after 2000				No functional	Daga
4.4.6 Stability	After installing the show described in ISO 7892:				No functional deterioration	Pass
	inside the shower enclo				deterioration	
	2. The impact body sha					
	its geometric centre. If c					
	not allow the necessary					
	energy given in Table 2					
	drop height excursion a					
	Distance to	Energy to	Falling height			
	opposite	applied	of impact			
	wall/panel	J	body h			
	mm		cm			
	≤600	63	13			
	≤700	94	19			
	≤800	125	25			
	>800	135	28			
		Energy for stab				
	When tested shower en					
	representing the impact					
	area without any function injury to the user.	nal deterioratio	n which could res	suit in		
4.4.7 Water		and B shall be	run consecutive	V	No leakage	Pass
retention	After installation, Test A and B shall be run consecutively using the test shower head in accordance with Figures18 and				NU leakage	1 835
	-		-			
	water at a temperature not exceeding 38 $^{\circ}$ C. Adjust the flow rate to (11±1) l/min.					
	• Test A:					
	Spray for 1 min across the width and height of all door/panel					
	of the shower enclosure at 90° to their surface from a distance					
	of 30 cm using the test shower head. Restrict the spray to the					
	area within 30 cm below the top of the door/panel.					
	Test B					
	After installation on a raised 50 mm×50 mm wall or shower					
	tray with a minimum bowl depth of 50 mm.					
	Mount the test shower head at a height of 1900 mm and set					
	back at a distance of 300 mm from the centre of the door					
	opening.					
	Direct the shower head vertically downwards and with the door closed spray the shower place floor for a period of 3					
	min.	nower place not		0		
					1	

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Clause **Test Method/ Requirement** Test Result Rating When tested, shower enclosures shall retain water. A few small drops of water on the outside of the water retaining area are acceptable. See ZA.1 and ZA.3 of standard. N/A 4.5 Dangerous 1 substances 2.EN 14527:2006+A1:2010 Class1+Class Pass Class 1: Products complying with the requirements of Clause 4 Classification 5 2 Class 2: Products complying with the requirements of Clause 6 5 Requirements for class 1 products 5.1 General The manufacturer shall provide instructions with each shower Not provided 1 tray covering installation and care. 5.2 Clean ability 5.2.1 When a shower tray is inspected under strong and obligue Pass / Appearance of illumination, the surfaces intended to come into contact with surface water shall be visibly smooth, non-absorbent and free from inaccessible corners that would impair clean ability. 5.2.2 Drainage Shower trays shall have at least one waste outlet hole. The See Result 1 Pass of water dimensions of the waste outlet hole shall comply with the requirements of EN 251. Other dimensions are permissible, if the manufacturer provides or recommends a suitable waste fittina. All water shall empty from the shower tray unless prevented by surface tension. 5.3 Durability 5.3.1 General Conformance with the requirements of 4.3.2 to 4.3.4 gives an Pass 1 assurance of durability of clean ability. 5.3.2 Stability of There shall be no permanent distortion or other defects, e.g. Pass / bottom cracks, such that the requirements of 4.2.2 are not satisfied. 5.3.3 Resistance to chemicals and staining agents 5.3.3.1 General When shower trays, other than those made from the Pass / materials specified in 5.3.3.2, are tested in accordance with 8.2, the surface finish shall be unaffected by the chemicals and staining agents specified in Table 1 except for superficial surface changes which are removable with water or with water and the specified abrasive agent.

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Clause	Test Method/ Requirement			Test Result	Rating
5.3.3.2	Shower trays made from e	teel and enameled cast	/	N/A	
Particular	iron shall comply with the r	(Plastic Tray)			
requirements for	Table 2 — Requirements for shower tra				
shower trays	Requirement	Parameter	Test method		
made of	Resistance to boiling water <	: 10 g/m ²	ISO 2744		
enameled steel	Resistance to cold citric acid	Class 2	ISO 2722		
and enameled	Resistance to boiling citric acid <	: 5 g/m²	ISO 2742		
cast iron		Class 2	EN 14483-1		
	Resistance to alkali solutions	: 8 g/m²	Test apparatus according to ISO 2742 Test solution according to ISO 4533 Duration of test: 2,5 h		
5.3.4	When tested in accordance	e with 8.3,	all shower trays shall	/	Pass
Resistance to	show no evidence of distor	tion or oth	er defects, e.g. crazing,		
temperature	which will impair their clear				
changes	Experience has shown tha	•	avs manufactured from		
	the stainless steel grades l		-		
	enameled cast iron and gla				
	requirement.				
6 Requirements fr	or class 2 products				
6.1 General		vide instru	ctions with each shower	/	Pass
	The manufacturer shall provide instructions with each shower tray covering installation and care.			,	1 400
6.2 Clean ability		lu carc.			
6.2.1				1	Deee
Appearance of	When a shower tray is inspected under strong and oblique			/	Pass
surface	illumination, the surfaces intended to come into contact with				
Sunace	water shall be visibly smooth, non-absorbent and free from				
	inaccessible corners that w				
6.2.2 Drainage	Shower trays shall have at least one waste outlet hole. The			See Result 1	Pass
of water	dimensions of the waste outlet hole shall comply with the				
	requirements of EN 251. C	ther dimer	nsions are permissible, if		
	the manufacturer provides	or			
	Recommends a suitable w	aste fitting			
	All water shall empty from	the showe	r tray unless prevented		
	by surface tension.				
6.3 Durability	-			II	
6.3.1 General	Shower trays shall be read	lily cleanab	le for their anticipated	/	Pass
	working life when normal cleaning and maintenance is carried				
	out.				
6.3.2 Materials	Experience has shown that	t shower tr	avs made from plastics	/	Pass
	-			,	
	materials, enameled steel, enameled cast iron, stainless steel, glazed ceramics or glass and their surfaces intended to				
	come into contact with water have the properties described in				
	6.3.1.				
	0.3.1.				

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Clause	Test Method/ Requirement	Test Result	Rating
7 Dangerous	See Clauses ZA.1 and ZA.3 of standard.	See Result 2	Pass
substances			

Remark:

- 1. The test report GZ12111513-1 for 4mm transparent tempered glass, issued by Intertek lab on DEC.21,2012 was provided for review;
- 2. N/A= Not applicable.

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Result 1: Dimension for Waste outlet hole (EN251-2012)

1) Waste outlet hole

Designation	Symbol	Requirement	Result (mm)
Diameter of the waste outlet hole		52^{+3}_{-2}	
	D ₂	62^{+3}_{-2}	50
		90^{+3}_{-2}	
Distance between the contact diameter of the control gauge and the bottom of the bath around the waste outlet hole	е	≥2	13
Contact diameter of the control gauge		70	
	D ₃	85	70
		115	
Contact cone angle	а	≤ 120°	105°
Height between the contact diameter of the control gauge and the	h	6 to 16	6
plane of the waste outlet hole	h ₂	6 to 25	6
Sealing surface for waste fitting	S	≥3	5

2) Clearance around the waste outlet hole:

Designation	Symbol	Values (mm)	Result
Radius of the circular	R	≥ 60	
area which shall remain free for installation of the		≥ 65	79
waste fitting		≥ 80	
Thickness of reinforcing material around the waste outlet hole	f	≤15	12

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Result 2: Dangerous substances Test Part Description :

Specimen No. Description

White solid sheet

Remarks :

1

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Entry 23 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

(previously restricted under Directive 91/338/EEC)

Test Method :With reference to EN 1122: 2001, Method B, analysis was performed by ICP-OES.Test Item(s)LimitMDL001Cadmium (Cd)100mg/kg5NDConclusionPASS

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Sample Photo:

Test sample (ZS-7230)



Thickness of glass



Fragmentation



End of Report





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