
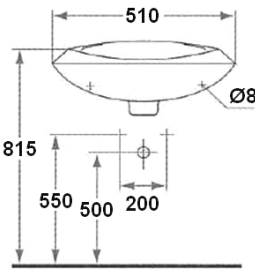
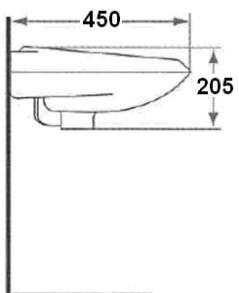




PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

<p>Item Descriptions</p> <p>Dimensions</p> <p>Model</p> <p>Material/ White</p> <p>Manufacturer</p> <p>Source</p> <p>Contact Tel/Fax</p> <p>E-mail</p> <p>Website</p>	<p>Star "Victoria" (Thailand) Vitreous china wall hung lavatory; complied with BS1188:1974 & BS3402:1969; BSEN 14688:2006, clause 4.1 and 5.2 Load Resistance Test; test reposrt J13000B-1 & J14411</p> <p>L510 x W450 x H205 mm</p> <p>S-4502S</p> <p>Vitreous China/ White</p> <p>Star (Thailand)</p> <p>Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen</p> <p>(852) 2388-7171 / (852) 2710-8012</p> <p>acme@acmesanitary.com.hk</p> <p>www.acmesanitary.com.hk</p>	<p>Illustration/ Drawing</p>    
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Note:

* All information of the above is for the reference only. No prior notice is made if any changes.



NUTEK SYSTEMS, LTD.

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TEST REPORT

TITLE : Testing of Wash Basin According to Hong Kong Housing Authority's Requirement

OUR REFERENCE : J13000B-1

DESCRIPTION OF SAMPLE : Vitreous China wall hung wash basin; Size: 510mmx450mmx205mm

SAMPLE SUBMITTED BY : Acme Sanitary Ware Co. Ltd.
1/F., Acme Building, 22 Nanking Street,
Kowloon, Hong Kong.

BRAND : STAR

COUNTRY OF ORIGIN : Thailand

MODEL : S-4502S (Victoria)

METHOD OF TESTS : BS1188: 1974; BS3402: 1969

PERIOD OF TESTS : 21st July to 15th August 2008

RESULTS: - (apply only to the sample tested)

1. DIMENSIONS - BS1188 (all dimensions are in millimetres unless otherwise stated)

	Sample	BS Requirement *
Overall length	450	/
Overall width	513	/
Total surface area of overflow opening (mm ²)	476	800 min.
Depth from top edge of rim to inside base of bowl at centre of outlet	147	165 ± 2%
Distance of centre of outlet from extreme back	176.8	180 ± 2%
Diameter of tap hole	33.3	30 +2
Waste hole	Diameter of recess of outlet for waste flange	64 min.
	Depth of recess	10 min.
	Waste hole diameter	46.8

*The dimensional requirements stated in BS1188 are only for two sizes of wash basins (1st size: length 620-650mm, width 445-465mm, 2nd size: length 548-572mm, width 396-414mm), and do not apply to the tested sample which did not belong to either of these two sizes.

2. WATER ABSORPTION (BS3402 : Cl.6 & App.A)

	Water absorption (%)	
	Sample	Acceptance standard
individual maximum value	0.31	0.75 max.
arithmetic mean	0.28	0.50 max.

Remark : Pass

3. CRAZING TEST (BS3402 Cl.7 & App.B)

	Saturated steam pressure (MN/m ²)	Duration (hour)	Sign of crazing
Sample	0.34	10	Nil
Acceptance standard	0.33 - 0.35	10	Nil

Remark : Pass; none of the test piece showed crazing.





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TEST REPORT

OUR REFERENCE NO. J13000B-1 (P.2)

4. CHEMICAL RESISTANCE TEST (BS3402 Cl.8 & App.C)

Chemical	Strength of solution (%)	Temperature (°C)	Immersion period (hour)	Loss of reflectivity on the glaze	
				Sample	Acceptance standard
Acetic acid	10	100	16	Nil	Nil
Citric acid	10	100	16	Nil	Nil
Detergent	BS3402 table 4 note 1	60	48	Nil	Nil
Hydrochloric acid	BS3402 table 4 note 2	20	48	Nil	Nil
Sodium hydroxide	5	60	0.5	Nil	Nil
Sodium stearate	0.15	60	48	Nil	Nil
Sulphuric acid	3	100	16	Nil	Nil

Remark : Pass

5. RESISTANCE TO STAINING AND BURNING (BS3402 Cl.9 & App.D)

	Chemicals	Stain remained on test piece	
		Sample	Acceptance standard
Chemical treatment	methylene blue	Nil	Nil
	sodium hypochlorite	Nil	Nil
	hydrogen peroxide	Nil	Nil
	amyl acetate	Nil	Nil
	carbon tetrachloride	Nil	Nil
	iodine in ethanol	Nil	Nil
Cigarette treatment		Nil	Nil

Remark : Pass

6. SUMMARY OF RESULTS (apply only to the sample tested)

- Dimensions - As shown in section 1.
- Water absorption - C
- Crazing - C
- Chemical resistance - C
- Resistance to staining and burning - C

(C - in compliance with HK Housing Authority's specifications)



Date : 10 April 2010 Authorized signature : _____

Nutek Systems is a testing agency,
approved by the Water Authority and
Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu

(Director)



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TEST REPORT

TITLE : Testing of Wash Basin
OUR REFERENCE : J14411
DESCRIPTION OF SAMPLE : Vitreous China wall hung wash basin; size: 510mm (L) x 450mm (W) x 205mm (H); supplied with anchor bolts for installation:

Sample	Brand	Origin	Model
Wash basin	STAR	THAILAND	S4502S
Stainless steel screws with nuts and spacers, plastic fillers and spacers	EMCA	PRC	EM9003.043

SAMPLE SUBMITTED BY : Acme Sanitary Ware Co. Ltd.
ACME Building, 22-28 Nanking Street,
Kowloon, Hong Kong.

TEST REQUIRED : BSEN14688: 2006, Clauses 4.1 and 5.2 Load Resistance Test

PERIOD OF TESTS : 16th April 2010

RESULTS:- (apply only to the sample tested)

LOAD RESISTANCE TEST

	Test conditions		Test result
	Test load (kN)	Duration (hour)	
Sample	1.50	1	The sample showed no sign of crack, permanent distortion or any other visual damages
BSEN's requirement	1.5 ±0.01	1	The sample shall not crack, be broken or show permanent distortion

Remark : Pass; the above test result complies with BSEN14688.

Date : 21st April 2010

Authorized signature : _____

Samson W.K. Yiu

(Director)

Nutek Systems is a testing agency, approved by the Water Authority and Government Supplies Department, for testing water supply fittings.

