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| PROJECT | | REF | | REV | ITEM CODE | |
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SANITARY WARE SPECIFICATION SHEET

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|---|--|
| <p>Item Descriptions</p> <p>American Standard (Thailand) "Acacia Evolution" Vitreous china semi-countertop wash basin; tested on BS1188:1974 & BS3402:1969; test report J27468</p> <p>Dimensions</p> <p>L500 x W460 x H181 mm</p> <p>Model</p> <p>TF0519</p> <p>Material/Colour</p> <p>Vitreous China</p> <p>Manufacturer</p> <p>American Standard (Thailand)</p> <p>Source</p> <p>Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Wilson Hung</p> <p>Contact Tel/Fax</p> <p>(852) 2388-7171 / (852) 2710-8012</p> <p>E-mail</p> <p>acme@acmesanitary.com.hk</p> <p>Website</p> <p>www.acmesanitary.com.hk</p> | <p align="center">Illustration/ Drawing</p> <p align="center">SIDE VIEW</p> <p align="center">FRONT VIEW</p> <p align="center">TOP VIEW</p> |
| <p>· An anti-bacterial glaze keeps the basin clean and effectively inhibits bacteria growth that can cause bad odour. Its anti-bacterial effectiveness lasts as long as the lifetime of the product</p> | |

Note: Equivalent to CCASF519-1010411C0 / CP-F519.001

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

Test Report



TF0519=0519-WT

Test

Title : Testing of Wash Basin
Method : BS 1188: 1974 & BS 3402: 1969
Report No. : J 27468
Completion : 07 Dec., 2021 to 28 Dec., 2021

Applicant (Information provided by client)


Name :
Address :



Sample (Information provided by client)

Description : Semi-counter Basin
Brand : AMERICAN STANDARD
Model : 0519-WT
Body Marking : *American Standard*
Manufacturer : LIXIL (Thailand) Public Company Limited
Origin : Thailand

Approved Signatory

Signature : 
Name (title) : Tin Sin Yee, Cindy (Engineer)
Date : 31 Dec., 2021

Nutek Systems is a testing agency,
accepted by the Water Supplies
Department, for testing water supply
fittings.

Summary

| Test | Remark |
|--------------------------------------|-----------------------|
| 1 Dimensions of Wash Basin | As shown in section 1 |
| 2 Visual Examination | C |
| 3 Water Absorption | C |
| 4 Crazeing | C |
| 5 Chemical Resistance Test | C |
| 6 Resistance to Staining and Burning | C |

Results (apply only to samples tested)

1 Dimensions of Wash Basin

BS 1188: 1974 Cl. 3.4, 3.7, 4 Table 1 & 2

| Variable | | Unit | Measured |
|---|-------------------------------------|-----------------|----------|
| Length | | mm | 463 |
| Width | | mm | 500 |
| Total surface area of overflow opening | | mm ² | 297.27 |
| Depth from top edge of rim to inside base of bowl at centre of outlet | | mm | 148.7 |
| Distance of centre of outlet from extreme back | | mm | 218.25 |
| Diameter of tap hole | | mm | 34.4 |
| Waste | Diameter of recess for waste flange | mm | 84 |
| | Depth of recess | mm | 9.62 |
| | Diameter of waste hole | mm | 45.5 |

2 Visual Examination

BS 3402: 1969 Cl. 5.3, 5.4 & Table 3

| Location | Blemish or defect | Maximum permitted | Remark |
|---|------------------------------|---|--------|
| General | Wavy finish | None on all visible surfaces | C |
| | Warpage | Warpage of slab out of horizontal plane not to exceed 6 mm on all sizes (warpage of backs of wash basins which are attached to the wall not to exceed 3 mm) | C |
| | Discoloration | None on all visible surfaces | C |
| Service space, top of slab, inside of bowl, front of fascia | Spots, blister and pinholes | A total of not over two; no grouping; for coloured appliances, blister and pinhole limited to one. | C |
| | Bubbles and specks | A total of not over four; no grouping | C |
| | Polishing marks | One only; none permitted for coloured figures | C |
| Visible surfaces other than above | Spots, blisters and pinholes | One only on back or on either side; a total of not over three. | C |
| | Bubbles and specks | A total of not over four; no grouping. | C |
| Overall result | | | C |

3 Water Absorption

BS 3402: 1969 Cl. 6

| ID | Weight (g) | | Absorption (%) | Required | Remark |
|----------------|-------------|------------|----------------|------------|--------|
| | Before Test | After Test | | | |
| Sample 1 | 163.1 | 163.4 | 0.17 | 0.75% max. | C |
| Sample 2 | 170.8 | 171.1 | 0.15 | | C |
| Sample 3 | 128.7 | 128.9 | 0.21 | | C |
| Average | | | 0.18 | 0.50% max. | C |
| Overall result | | | | | C |

4 Crazing

BS 3402: 1969 Cl. 7

| ID | Variable | Unit | Measured | Required | Remark |
|----------------|-----------------|-------------------|----------|-------------|--------|
| 1 | Saturated steam | MN/m ² | 0.34 | 0.33 - 0.35 | C |
| | Duration | h | 10 | 10 | C |
| | Sample 1 | --- | No | No | C |
| | Sample 2 | --- | NO | | C |
| | Sample 3 | --- | No | | C |
| Overall result | | | | | C |

5 Chemical Resistance Test

BS 3402: 1969 Cl. 8

Table 4 -- Chemical solutions

| Name of Chemical | Strength of solution | Time | Temperature |
|--------------------|----------------------|-------|-------------|
| | % | hours | °C |
| Acetic acid | 10 | 16 | 100 |
| Citric acid | 10 | 16 | 100 |
| Detergent (Note 1) | (Note 1) | 48 | 60 |
| Hydrochloric acid | (Note 2) | 48 | 15 to 21 |
| Sodium hydroxide | 5 | 0.5 | 60 |
| Sodium stearate | 0.15 | 48 | 60 |
| Sulphuric acid | 3 | 16 | 100 |

NOTE 1 This consists of an aqueous solution containing 0.04 % (wt/vol) of a condensation product of nonylphenol with 8-10 molecules of ethylene oxide. A suitable solution which contains 0.15% (wt/vol) of the product is obtainable commercially under the trade name "Lissapol N".

NOTE 2 This solution consists of equal volumes of water and of hydrochloric acid of specific gravity 1.18.

| ID | Solution | Time (h) | Temperature (°C) | Measured | Required | Remark |
|----------------|-------------------|----------|------------------|----------|----------------------------------|--------|
| 1 | Acetic acid | 16 | 100 | No Loss | No loss of reflectivity on glaze | C |
| | Citric acid | 16 | 100 | No Loss | | C |
| | Detergent | 48 | 60 | No Loss | | C |
| | Hydrochloric acid | 48 | 20 | No Loss | | C |
| | Sodium hydroxide | 0.5 | 60 | No Loss | | C |
| | Sodium stearate | 48 | 60 | No Loss | | C |
| | Sulphuric acid | 16 | 100 | No Loss | | C |
| Overall result | | | | | | C |

6 Resistance to Staining and Burning

BS 3402: 1969 Cl. 9

| ID | Variable | Unit | Measured | Required | Remark | |
|----------------|---------------------|------|----------|------------------|--------|---|
| 1 | Methylene blue | --- | No Stain | No stain remains | C | |
| | Sodium hypochlorite | --- | No Stain | | C | |
| | Hydrogen peroxide | --- | No Stain | | C | |
| | Amyl acetate | --- | No Stain | | C | |
| | Iodine in ethanol | --- | No Stain | | C | |
| 2 | Lighted cigarette | --- | No Stain | | C | |
| Overall result | | | | | | C |

Figure 1 - Sample



Figure 2 - Body marking



General Note(s)

Definitions:

C - conformance

N - no requirement

NC - non-conformance

R - remainder

Organizations:

WSD - Water Supplies Department (of Hong Kong)

WHO - World Health Organization

- End of report -