

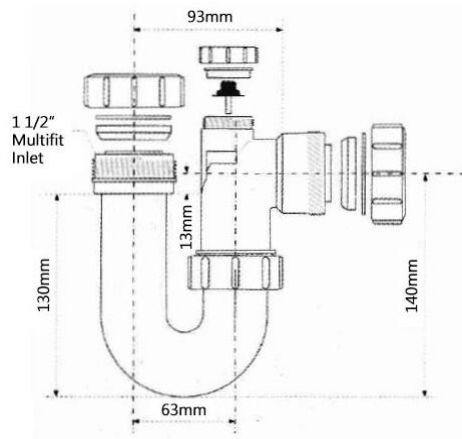




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|----------|--|------|--|-----|-----------|--|
| PROJECT  |  | REF  |  | REV | ITEM CODE |  |
| LOCATION |  | DATE |  |     | PAGE      |  |

**SANITARY WARE SPECIFICATION SHEET**

|   |  |   |
|---|--|---|
| <p>Item Descriptions</p> <p>Dimensions</p> <p>Model</p> <p>Finish</p> <p>Material</p> <p>Manufacturer</p> <p>Supplier</p> <p>Contact Tel/Fax</p> <p>E-mail</p> <p>Website</p> | <p>McAlpine (UK) 1½" Anti-Syphon tubular swivel tap with short outlet 80mm water seal; complied with BS EN 274-1:2002, BS EN 274-2:2002, BS EN 274-3:2002; test report J22688</p> <p>Refer to drawing</p> <p>SE10VMSH</p> <p>White</p> <p>Plastic</p> <p>McAlpine &amp; Co. Ltd. (UK)</p> <p>Acme Sanitary Ware Co. Ltd<br/>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 align="center"><b>Anti-Syphon Traps (Silentrap)</b></p>  | <p align="center">Illustration/ Drawing</p>   |
|---|--|---|

Note:

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



# Nutek Systems

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TITLE : Testing of Waste Fitting  
REFERENCE NO. : J 22688  
DESCRIPTION OF SAMPLE : 40mm Anti-Syphon P Trap  
SAMPLE SUBMITTED BY :

MANUFACTURER : McAlpine & Co. Ltd  
BRAND : McAlpine  
BODY MARKINGS : McALPINE  
COUNTRY OF ORIGIN : United Kingdom  
MODEL : SC10VMSH  
METHOD OF TESTS : BS EN 274-1: 2002; BS EN 274-2: 2002; BS EN 274-3: 2002  
PERIOD OF TESTS : 13 Apr., 2018

## RESULTS:- (apply only to the sample tested)

### 1. APPEARANCE OF SURFACE (BS EN 274-3 Table 1 & BS EN 274-1 Cl 4.2)

| Requirement  | Remark |
|--|--------|
| The internal and external surfaces of the waste fittings shall be smooth, free from grooving, blistering or any other surface defects likely to impair their functioning | Pass   |

### 2. DIMENSIONS (in mm) (BS EN 274-3 Table 1 & BS EN 274-1: 2002 Cl. 4.5)

The waste fitting is applied for waste outlet with trap

|                          | Sample | Requirement  |
|--------------------------|--------|--|
| Diameter of waste outlet | 43.2   | /  |
| Diameter of waste inlet  | 35.3   | /  |
| Height                   | 180    |  |
| Depth of water seal      | 92     | ≥50 for partly filled discharge branches<br>≥75 for full bore discharge branches |



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### 3. HYDRAULIC REQUIREMENTS

3.1 BS EN 274 test tank (BS EN 274-1: 2002 Cl. 4.6 & BS EN 274-2: 2002 Cl.5)

|             | Component              | For          | Minimum Flow rate (l/s) | Remark |
|-------------|------------------------|--------------|-------------------------|--------|
| Sample      | Waste outlet with trap | Kitchen sink | 1.14                    | Pass   |
| Requirement | Waste outlet with trap | Kitchen sink | 0.6                     | /      |

Table 3 — Minimum flowrates

| Waste fitting/<br>component | Minimum flowrate for waste fitting/component for sanitary appliance |      |              |  |   |
|-----------------------------|---|------|--------------|--|---|
|                             | Wash basin,<br>bidet  | Bath | Kitchen sink | Shower tray with waste<br>outlet hole size 52 mm<br>or 62 mm | Shower tray with<br>waste outlet hole size<br>90 mm |
|                             | l/s   |      |              |  |   |
| Waste outlet                | 0,6   | 1,0  | 0,7          | -  |   |
| Waste outlet with trap      | 0,5   | 0,8  | 0,6          | 0,4  | 0,4   |
| Trap alone                  | 0,6   | 0,85 | 0,7          | -  | -   |
| Overflow                    | 0,25  | 0,6  | 0,25         | 0,35   | -   |



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#### 4. MATERIALS AND TEMPERATURE CYCLING TEST (BS EN 274-3: 2002 Table 1; BS EN 274-1: 2002 Cl 4.3 & BS EN 274-2: 2002 Cl. 3)

|        | 5 cycles  | Requirement         | Remark |
|--------|---|---------------------|--------|
| Sample | 95 -2 °C for 15 mins at 0.5 l/s, then 20±5°C for 10 mins at 0.5 l/s | No material failure | Pass   |

#### 5. LEAKTIGHTNESS (BS EN 274-2: 2002 Cl 6)

|  | Water pressure (bar) | Duration (min) | Leakage | Remark |
|--|----------------------|----------------|---------|--------|
| Sample                                     | 0.1                  | 60             | Nil     | Pass   |
| Waste outlet with plug or flap requirement | /                    | 60             | No      | /      |
| Waste fitting requirement                  | 0.1                  | 5              | No      | /      |

#### 6. SUMMARY

|  |                |
|--|----------------|
| Appearance of surface                  | - Satisfactory |
| Dimensions                             | - Satisfactory |
| Hydraulic requirements                 | - Satisfactory |
| Materials and temperature cycling test | - Satisfactory |
| Leaktightness                          | - Satisfactory |

Date: 14 June, 2018 Authorized signature:

*Vincent Lok*

**LOK K.W., Vincent**  
(Mechanical Engineer)

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



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**Figure 1 - 40mm Anti-Syphon P Trap**