

SINGAPORE STANDARD

SS 379 : 1996

(ICS 91.140.70)

SPECIFICATION FOR

Vitreous china WC pans for use with low capacity WC flushing cisterns up to 4.5 L maximum

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SPECIFICATION FOR VITREOUS CHINA WC PANS FOR USE WITH
LOW CAPACITY WC FLUSHING CISTERNS UP TO 4.5 L MAXIMUM

FOREWORD

This Singapore Standard was prepared by the Technical Committee on Building Services under the direction of the Building Materials Product Standards Committee.

The principal objective of this Singapore Standard is to provide basic dimensions and requirements for the functional performance of the WC pans for use with the low capacity WC flushing cisterns. It is hoped that this Singapore Standard will be a guide for the good design and manufacturing of such pans.

In preparing this standard, references were made to the following standards:

- | | | |
|-----|------------------|--|
| (a) | BS 5503 : | Vitreous china washdown WC pans with horizontal outlet Part 3 : 1990 Specification for WC pans with horizontal outlet for use with 7.5 L maximum flush capacity cisterns |
| (b) | BS 5504 : | Wall hung WC pans Part 4 : 1990 Specification for wall hung WC pans for use with 7.5 L maximum flush capacity cisterns |
| (c) | BS 5627 : 1984 | Specification for plastic connectors for use with horizontal outlet vitreous china WC pans |
| (d) | BS 7358 : 1990 | Specification for close coupled suites with flush capacity of 7.5 L maximum |
| (e) | pr EN 997 : 1994 | WC pans with integral trap |
| (f) | SS 205 : 1978 | Specification for vitreous china washdown WC pans - Dimensions and functional requirements |
| (g) | Draft SS 378 | Specification for low capacity WC flushing cisterns up to 4.5 L maximum. |

Acknowledgement is made for the use of information from the above overseas standards.

NOTE

1. Singapore Standards are subject to periodical review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue of either amendment slips or revised editions.
2. Compliance with a Singapore Standard does not exempt users from legal obligations.

1. SCOPE

This Singapore Standard lays down the basic dimensions and functional requirements together with test methods for pedestal, squatting and wall hung washdown water closet (WC) pans (with integral trap) made from vitreous china for use with low capacity WC flushing cisterns up to 4.5 litres maximum complying with SS 378.

2. DEFINITIONS

For the purpose of this Singapore Standard, the following definitions shall apply:

- 2.1 Water Closet (WC) Pan.** A sanitary appliance, for the reception and flushing away of human solid and liquid excrement, consisting of a bowl with an inlet for flushing water and a trapped outlet.
- 2.2 Close Coupled WC Suite.** WC suite in which a flushing cistern is connected directly to the water closet pan.
- 2.3 Pedestal WC Pan.** Floor mounted water closet pan that has an integral supporting base.
- 2.4 Squatting WC Pan.** WC pan with an elongated bowl for installing with its top edge at or near floor level so that the user adopts a squatting position.
- 2.5 Wall Hung WC Pan.** Wall mounted water closet pan that has a horizontal outlet.

3. REQUIREMENTS

- 3.1 Quality.** The quality of the vitreous china WC pans shall conform to SS 42.

3.2 Construction

3.2.1 Pedestal WC pan. This shall be of one piece construction. The pan shall be provided with not less than two floor fixing holes to enable the pan to be securely installed to the floor using corrosion resistant bolts or screws. The flushing rim and inlet shall be self-draining and shall be so constructed as to permit ready access of air to the flush pipe at the end of the flush.

The pan shall be provided with an integral trap. The trap shall have either horizontal or vertical outlet with or without an inspection vent.

3.2.2 Squatting WC pan. Each pan shall have an integral flushing rim. The inside of the bottom of the pan shall have sufficient slope from the front towards the outlet to enable easy and quick disposal while flushing. The pan shall be provided with an integral trap with or without an inspection vent at the outlet. The inspection vent where provided shall be extended to the rim level of the water closet (WC) pan.

3.2.3 Wall hung WC pan. This shall be of one piece construction. The pan shall be provided with no less than two fixing holes to enable the pan to be securely installed to the wall using metallic corrosion resistant bolts and nuts and an independent concealed support frame. The support frame (metal hanger or carrier), depending on the design, shall be securely attached to the building structural members so that no strain is transmitted to the WC pan connector or any other part of the plumbing system.

The pan shall be provided with an integral trap. The trap shall have a horizontal outlet.