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AS 1172
Water closets of 6/3 L capacity
AS 1172.1—1993
Pans
(In Professional Packages 61A, 61B) 28pp GG
Specifies the requirements for pans intended for use with
flushing cisterns complying with AS 1172.2 and other
flushing devices.
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Australian Standard®

Water closet pans



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Australian Chamber of Manufacturers
Australian Design and Technology Association
Board of Works, Melbourne
Confederation of Australian Industry
Department of Health, N.S.W.
Department of Local Government, Qld
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AS 1172—1989

Australian Standard®

Water closet pans

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PREFACE

This Standard was prepared by the Standards Australia Committee on Sanitary Plumbing Fixtures to supersede AS 1172—1971, *Vitreous china water closet pans*. This Standard differs from the previous edition as follows:

- (a) The scope is extended to cater for pans of washdown and alternate systems e.g. syphonic, suitable for use with flushing devices of varying capacities.
- (b) The design of pans now includes provision for a horizontal outlet which, by means of suitable adaptors, enables the pan to be used in S trap, P trap and side outlet situations.
- (c) Wall-hung pans are now included.

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STANDARDS AUSTRALIA

Australian Standard
Water closet pans

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for water closet pans intended for use with flushing cisterns and other flushing devices.

1.2 APPLICATION. Water closet pans shall comply with Section 1 and Sections 2 and 3 as follows:

Section 2. Vitreous china pans, or,

Section 3. Stainless steel pans.

1.3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

1218 Flushing cisterns

1355 Glossary of terms used in connection with water and sanitary plumbing and drainage installations

1432 Copper tubes for water, gas and sanitation

1449 Wrought alloy steels—Stainless and heat-resisting steel plate, sheet and strip

1476 Metric wood screws

1976 Vitreous china for use in sanitary appliances

1.4 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 1355 and those below apply.

1.4.1 Full flush pan—a pan requiring a nominal full flush of 9 L.

1.4.2 Reduced flush pan—a pan requiring a nominal full flush of less than 8 to 4.5 L and as specified.

1.4.3 Restricted flush pan—a pan requiring a nominal full flush of 4 L for connecting to septic systems.

1.4.4 Matching suite pan—a pan intended to operate with one or more specific cisterns having a flush of between 4.5 and 8 L.

1.5 DESIGN.

1.5.1 Principal dimensions. Pans shall comply with the mandatory dimensions shown in Figure 1, as appropriate.

1.5.2 Water seal. Each pan shall have an integral trap providing a depth of water seal as follows:

- (a) Full, dual and reduced flush 45 mm min.
- (b) Restricted flush 25 mm min. (septic systems only).

1.5.3 Liquid capacity. When tested in accordance with Clause 1.6.2, each pan shall retain the nominal flush of the cistern above the normal water seal.

1.5.4 Rim level. The top of the rim of the pan shall not deviate by more than 5 mm from a plane surface resting on the top of the rim commencing at the back of the opening.

1.5.5 Grooves. Any grooves on the internal wetted surface of the pan above the water seal required by the design and manufacturing process shall be capable of passing the cleansing test in Appendix A and shall be drained to the sump of the pan.

1.5.6 Seat-bolt apertures. Holes or slots where provided for attachment of the seat shall be located in accordance with Figure 1. The diameter of a hole or the width of a slot shall be 11 mm minimum.

A flat area on the underside of the pan not less than 5 mm wide shall be provided around the periphery of the hole or slot to accommodate washers and nuts to fix the seat to the pan.

1.5.7 Fixing and support.

1.5.7.1 Pedestal pan. Provision shall be made either for fixing the pan in position with at least one screw on either side of the base, or another means of fixing which shall be capable of passing the safety load test specified in Appendix B. Screw holes shall be 7 mm min. diameter and countersunk.

1.5.7.2 Wall-hung pan. Each wall-hung pan shall be provided with an integral means of being built into or being fixed to a wall with brackets or other separate means of support supplied by the manufacturer, and shall be capable of passing the safety load test specified in Clause 1.6.5. Brackets or other means of fixing shall be of corrosion-resistant materials.

1.5.8 Inlet. The inlet for the flush pipe shall be capable of taking either an external or internal seal and shall be provided with a stop (only to pans requiring a flush pipe). Top inlet pans shall be of the manufacturer's own design to suit the matching cisterns.

1.6 PERFORMANCE REQUIREMENTS.

1.6.1 Paper discharge test. When tested in accordance with Appendix A, a pan shall discharge all of the paper in two out of the three trials.

1.6.2 Leakage and capacity test. When tested in accordance with Appendix A, a pan shall not overflow or leak.

1.6.3 Splash test. When tested in accordance with Appendix A, a pan shall not splash water onto the floor.

1.6.4 Cleansing test. When tested in accordance with Appendix A, a pan shall wash sawdust from all areas more than 50 mm below the lower edge of the flushing rim.

1.6.5 Safety load test. When tested in accordance with Appendix B, a pan shall be capable of supporting the load, and shall not crack.

1.6.6 Deflection test. When tested in accordance with Appendix C, a pan shall not deflect more than the nominated value.