



Sanitary plumbing products

Part 4: Washbasins



AS 1172.4:2019

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- Australian Industry Group
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- Department of Agriculture and Water Resources (Australian Government)
- Plumbing Products Industry Group
- The Institute of Plumbing Australia

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-003, Sanitary Plumbing Fixtures, to supersede AS/NZS 1730:1996, *Washbasins*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers, importers, suppliers and users with requirements for washbasins. The Standard has been redesignated to become Part 4 of the AS 1172, *Sanitary plumbing products*, series.

The main change in this revision is the provision of performance requirements for basins with overflows. These requirements include the criteria to prevent basins from overflowing.

Another significant change is the addition of a wall safety load test for wall basins.

Main technical changes to this Standard from the 1996 edition are as follows:

- (a) Inclusion of requirements for non-vitreous ceramic washbasins (see [Section 5](#)).
- (b) Inclusion of product conformity requirements (see [Appendix A](#)).
- (c) Inclusion of a load safety test for wall basins (see [Appendix B](#)).
- (d) Inclusion of overflow performance requirements for washbasins (see [Appendix C](#)).

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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Australian Standard®

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Part 4: Washbasins

Section 1 Scope and general

1.1 Scope

This Standard specifies requirements for materials, construction, workmanship and finish of washbasins. Critical dimensions only are specified.

1.2 Application

The washbasins shall conform to [Section 1](#) and the specific requirements of [Sections 2](#) to [7](#) (appropriate to washbasin type) as follows:

[Section 2](#), Cast iron vitreous enamelled washbasins.

[Section 3](#), Pressed steel vitreous enamelled washbasins.

[Section 4](#), Vitreous china washbasins.

[Section 5](#), Non-vitreous ceramic washbasins.

[Section 6](#), Stainless steel washbasins.

[Section 7](#), Plastics and composite materials washbasins.

1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1589, *Copper and copper alloy waste fittings*

AS 1830, *Grey cast iron*

AS 1976, *Vitreous china used in sanitary appliances*

AS 2001.4.A02, *Methods of test for textiles, Method 4.A02: Colourfastness tests—Grey scale for assessing change in colour*

AS 2887, *Plastic waste fittings*

AS 3558.2, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 2: Determination of chemical and stain resistance*

AS 3558.3, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 3: Determination of colour fastness*

AS 3558.4, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 4: Determination of resistance to surface scratching*

AS 3558.6, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 6: Visual examination of surface finish for defects*

AS 3558.15, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 15: Determination of impact resistance of washbasins*

AS 3558.16, *Methods of testing plastics and composite materials sanitary plumbing fixtures, Method 16: Determination of resistance to thermal shock of washbasins*

AS 3740, *Waterproofing of domestic wet areas*

AS 4023, *Non-vitreous china used in sanitary appliances*

AS/NZS 1595, *Cold-rolled, unalloyed, steel sheet and strip*

AS/NZS 3500.0, *Plumbing and drainage, Part 0: Glossary of terms*

AS/NZS 3500.2, *Plumbing and drainage, Part 2: Sanitary plumbing and drainage*

ASTM A240/A240M, *Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications*

1.4 Terms and definitions

For the purpose of this document, the definitions given in AS/NZS 3500.0 and those below apply.

1.4.1

bead

roll or formed edge on one or more sides of the washbasin which may be used for flashing purposes

1.4.2

blister

bubble formed during fusion of vitreous enamel or plastics/composite material which remains after solidification

1.4.3

built-in washbasin

washbasin with a tiling flange or an upstand for installation abutting a wall

1.4.4

chipping

removal of the enamel coating of a washbasin by impact

1.4.5

clickers

sharp raised black marks

1.4.6

crazing

crack in the entire thickness of the enamel coating or finished surface of a plastics composite material

1.4.7

deformation

that which is obvious to the eye without resorting to dimensional checking

1.4.8

dimples

slight depressions of the finished surface

1.4.9

inset (or vanity) washbasin

washbasin with a sealing rim which may be integral with an impervious bench top

1.4.10

island washbasin

washbasin not abutting a wall

1.4.11**lift**

area of the base from which the enamel or plastics composite has lifted

1.4.12**lumps**

raised portions of the finished surface

1.4.13**peeling**

spontaneous detachment of pieces of enamel or plastics composite from the base material

1.4.14**pinhole**

hole that extends through the enamel to the metal base or in the finished surface of a plastics composite material

1.4.15**scale**

raised piece of foreign matter on a finished surface

1.4.16**scratching**

scratch penetrating the finished surface of a washbasin

1.4.17**specks**

particles of foreign matter producing a different colour on a surface

1.4.18**tiling flange**

upstand on one or more sides of the washbasin for flashing purposes

1.4.19**wall basin**

washbasin attached to a wall by means of brackets and screws

1.5 Design**1.5.1 Corner radii**

The inside corners of the bowl at the junctions of the sides with each other and the junctions of the sides with the bottom shall be curved with a radius of not less than 5 mm. Any other internal radii shall not be less than 3 mm.

1.5.2 Flashings

Flashings shall permit installation in accordance with AS 3740. An inset basin not integral with a bench top shall have an integral rim capable of being sealed to the bench top. The seal shall be waterproof.

1.5.3 Drainage

The bottom of the washbasin shall have a continuous fall to the waste outlet hole.

Soap recesses and rims shall have a continuous fall to the inside of the basin. Textured and profile surfaces are permitted; however, where textured or profiled surfaces are incorporated, drainage shall be unaffected.

1.5.4 Integral water seal traps

The depth of water seal shall be 75^{+35}_{-5} mm. For waterway sizings, see AS 1589.

1.5.5 Waste outlet

The waste outlet hole shall incorporate a flange recess that allows the installation of a waste fitting conforming with AS 1589 or AS 2887 such that the fitting permits the drainage of the basin.

1.5.6 Support and rigidity

The washbasin shall provide for a means of secure support ensuring that when it is installed, no load is placed on the waste pipe or water connections. Support structures, fixings, fasteners, and stiffeners, where provided, shall have a life not less than that of the washbasin.

Washbasins which do not have a separate support structure shall be self-supporting, either from the base or from the flange as appropriate to the type of installation.

1.6 Washbasin strength and support test

With the exception of wall basins (see [Clause 1.7](#)), all washbasins when installed in accordance with the manufacturer's instructions in the designed manner and filled to maximum capacity with water and with a 30^{+1}_0 kg mass placed or hung on the middle of the front edge of the washbasin, shall, after a period of 2 min, show no sign of fracture, leakage or deformation greater than 5 mm. With the load removed, there shall be no permanent deformation greater than 1 mm and the washbasin shall show no signs of cracks, fracture or leakage.

1.7 Wall basin safety load test

When tested in accordance with [Appendix B](#), wall basins shall show no sign of fracture, leakage or deformation greater than 5 mm. With the load removed, there shall be no permanent deformation greater than 1 mm and the wall basin shall show no signs of cracks, fracture or leakage. Fixings and brackets shall show no signs of failure.

NOTE [Appendix B](#) tests the integrity of the basin, fixed to a rigid wall. It is not the intention to interpret this test as part of installation requirement.

1.8 Overflow prevention test

When tested in accordance with [Appendix C](#), washbasins with an integral overflow, installed with any additional fittings supplied (cosmetic or other) shall prevent water in the bowl flowing over the rim.

The overflow opening shall freely drain to the waste outlet (below plug) or waste pipe system for the washbasin.

1.9 Marking

Each washbasin shall be permanently marked with the manufacturer's name or trademark.

1.10 Labelling

Each washbasin shall be labelled or otherwise marked with model identification information.