



Sanitary plumbing products

Part 4: Washbasins



AS 1172.4:2019

This Australian Standard® was prepared by WS-003, Sanitary Plumbing Fixtures. It was approved on behalf of the Council of Standards Australia on 6 December 2019.

This Standard was published on 20 December 2019.

The following are represented on Committee WS-003:

- Association of Accredited Certification Bodies
- Australian Building Codes Board
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- CSIRO
- Department of Agriculture and Water Resources (Australian Government)
- Plumbing Products Industry Group
- The Institute of Plumbing Australia

This Standard was issued in draft form for comment as DR AS 1730:2018.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

ISBN 978 1 76072 680 5



Sanitary plumbing products

Part 4: Washbasins

Originated as AS A48—1946.
Previous edition AS/NZS 1730:1996.
Revised and redesignated as AS 1172.4:2019.

COPYRIGHT

© Standards Australia Limited 2019

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

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.

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope.....	1
1.2 Application.....	1
1.3 Normative references.....	1
1.4 Terms and definitions.....	2
1.5 Design.....	3
1.5.1 Corner radii.....	3
1.5.2 Flashings.....	3
1.5.3 Drainage.....	3
1.5.4 Integral water seal traps.....	4
1.5.5 Waste outlet.....	4
1.5.6 Support and rigidity.....	4
1.6 Washbasin strength and support test.....	4
1.7 Wall basin safety load test.....	4
1.8 Overflow prevention test.....	4
1.9 Marking.....	4
1.10 Labelling.....	4
1.11 Installation instructions.....	5
1.12 Product conformity.....	5
Section 2 Cast iron vitreous enamelled washbasins	6
2.1 General.....	6
2.2 Materials and workmanship.....	6
2.2.1 Cast iron.....	6
2.2.2 Thickness.....	6
2.2.3 Surface finish.....	6
2.3 Surface quality.....	6
2.4 Blemishes.....	6
Section 3 Pressed steel vitreous enamelled washbasins	8
3.1 General.....	8
3.2 Materials and workmanship.....	8
3.2.1 Steel.....	8
3.2.2 Thickness.....	8
3.2.3 Construction.....	8
3.2.4 Surface finish.....	8
3.3 Surface quality.....	8
3.4 Blemishes.....	9
Section 4 Vitreous china washbasins	10
4.1 General.....	10
4.2 Materials and workmanship.....	10
4.2.1 Material.....	10
4.2.2 Thickness.....	10
4.2.3 Surface finish.....	10
4.3 Surface quality.....	10
Section 5 Non-vitreous ceramic washbasins	11
5.1 General.....	11
5.2 Materials and workmanship.....	11
5.2.1 Material.....	11
5.2.2 Thickness.....	11
5.2.3 Surface finish.....	11
5.2.4 Glaze.....	11
Section 6 Stainless steel washbasins	12

6.1	General.....	12
6.2	Materials and workmanship.....	12
6.2.1	Stainless steel.....	12
6.2.2	Thickness.....	12
6.2.3	Construction.....	12
Section 7	Plastics and composite materials washbasins.....	13
7.1	General.....	13
7.2	Materials and workmanship.....	13
7.2.1	Materials.....	13
7.2.2	Gel coat thickness.....	13
7.3	Properties of finished washbasins.....	13
7.3.1	General.....	13
7.3.2	Surface quality.....	13
7.3.3	Chemical and stain resistance test.....	13
7.3.4	Colourfastness test.....	13
7.3.5	Surface scratching test.....	13
7.3.6	Impact test.....	14
7.3.7	Thermal shock test.....	14
Appendix A	(normative) Product conformity.....	15
Appendix B	(normative) Wall basin load safety test.....	18
Appendix C	(normative) Overflow capacity test.....	20

Australian Standard[®]

Sanitary plumbing products

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*