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Australian Standard®

Water supply—Water efficient shower heads

STANDARDS AUSTRALIA

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Australian Design and Technology Association
Australian Valve Manufacturers Association
Brisbane City Council
Confederation of Australian Industry
Department of Local Government, Qld
Department of Public Works, N.S.W.
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PREFACE

This Standard was prepared by Standards Australia's Committee on Brass Water Fittings at the request of the Water Efficient Appliance and Plumbing Group (WEAP).

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Australian Standard

Water supply—Water efficient shower heads

1 SCOPE. This Standard specifies requirements for performance of water efficient shower heads for ablution purposes. Materials, dimensions, and mechanical construction of shower heads are not included.

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

AS
1432 Copper tubes for water, gas and sanitation

1722 Pipe threads of Whitworth form
1722.2 Fastening pipe threads

3 DEFINITIONS. For the purpose of this Standard, the definitions below apply.

3.1 Flow pressure—the water pressure measured by a manometer or a measuring device under flow conditions in accordance with Appendix B.

3.2 Nominal flow rate—is the rate of flow as determined by the manufacturer to provide a spray pattern complying with Clause 5.1

3.3 Shower head—an outlet fitting through which water passes and is emitted through a fixed or removable spray plate as either a number of separate jets or as water droplets.

3.4 Spray plate—a plate containing holes or slots through which water passes and thereby forms a spray of water with separate, definable jets or water droplets.

3.5 Spray pattern—the water fall-out area when under flow conditions in accordance with Appendix A.

3.6 Water efficient shower head—a shower head that complies with this Standard.

4 DESIGN.

4.1 End connections. All inlet connection threads shall comply with AS 1722.2.

4.2 Flow restricting mechanism. Where a flow restricting mechanism is incorporated, it shall be mechanically retained so as to prevent accidental dislodgement.

5 PERFORMANCE REQUIREMENTS.

5.1 Spray pattern. When tested in accordance with Appendix A, the distribution of the water spray shall be such that the amount of water collected by each section of the annular gauge expressed as a percentage of the total volume collected shall be as follows:

(a) Centre cylinder: 0% to 35%.

(b) Inner annulus: 10% to 70%

(c) Outer annulus: 25% to 65%.

Under test conditions the shower shall form a definite spray pattern and show no signs of misting.

Where the shower equipment includes spray adjustment, compliance with the above requirements at any one setting will be acceptable.

5.2 Maximum flow rate. When tested in accordance with Appendix B, the maximum flow rate of a shower head shall not exceed 12 L/min at a flow backpressure of 250 kPa.

6 MARKING REQUIREMENTS. Shower heads and packaging shall be durably marked as follows:

(a) *Shower heads*—

(i) with the manufacturer's name or trademark if the manufacturer is incorporated in Australia; or

(ii) with the manufacturer's Australian agent's name if the manufacturer is not incorporated in Australia.

(b) *Packaging.* Packaging shall be marked with the nominal flow rate of the shower head and the flow backpressure in accordance with Appendix A.

NOTE: Manufacturers wishing to claim compliance with this Australian Standard on shower heads, on packaging or on related promotional material are advised to ensure that such a claim is capable of being verified.