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Shower units —

Part 2: Specification for the installation of shower units

UDC 696.144.2

Committees responsible for this British Standard

This British Standard was published under the direction of the Building Services Standards Committee SEB/-. Its preparation was entrusted to Technical Committee SEB/37 upon which the following bodies were represented:

Association of Manufacturers of Domestic Electrical Appliances
 Association of Manufacturers of Domestic Unvented Supply Systems Equipment
 British Bath Manufacturers' Association
 British Ceramic Tile Council
 British Gas Corporation
 British Plastics Federation
 Chartered Institution of Building Services
 Consumer Standards Advisory Committee of BSI
 Consumers' Association
 Council of British Ceramic Sanitaryware Manufacturers
 Department of Health and Social Security
 Department of the Environment (Building Research Establishment)
 Department of the Environment (PSA)
 Disabled Living Foundation
 Flat Glass Manufacturers' Association
 Institute of Plumbing
 Institution of Gas Engineers
 National Brassfoundry Association
 National Federation of Building Trades Employers
 National House-Building Council
 National Water Council
 Plastic Bath Manufacturers' Association
 Royal Institute of British Architects

This British Standard, having been prepared under the direction of the Building Services Standards Committee, was published under the authority of the Board of the BSI and comes into effect on 29 July 1983

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Amendments issued since publication

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Foreword

This Part of BS 6340 has been prepared under the direction of the Building Services Standards Committee and was initiated by the Consumer Standards Advisory Committee, a need for such a standard having been indicated by various interested organizations.

The use of a shower unit is now a widespread practice, and in many cases shower units can prove more convenient and economic than a bath. They also take up less space than conventional baths and are therefore beneficial in small flats or single person dwellings having limited floor area. They have special advantages for those who have difficulty in using a bath.

Shower unit components may be purchased as individual items (e.g. shower tray, mixer valve), as groups of items (e.g. all brassware), and as complete pre-packed units ready for installing into the building. As a shower unit comprises many different components the consumer needs guidance on their choice and installation to ensure that the unit, when installed, performs satisfactorily.

In view of this many-faceted situation this standard is being published in the following Parts:

- *Part 1: Guide on choice of shower units and their components for use in private dwellings;*
- *Part 2: Specification for the installation of shower units;*
- *Part 3: Specification for prefabricated shower enclosures;*
- *Part 4: Specification for shower heads;*
- *Part 5: Specification for prefabricated shower trays made from acrylic material;*
- *Part 6: Specification for prefabricated shower trays made from porcelain enamelled cast iron;*
- *Part 7: Specification for prefabricated shower trays made from vitreous enamelled sheet steel;*
- *Part 8: Specification for prefabricated shower trays made from glazed ceramic.*

Components and installations that are not specific to shower units are covered in many other British Standards and these are referenced in this Part of this standard. Reference is made in this standard to a number of British Standards which at the time of publication of this Part were still in draft form. As these documents are published, amendments will be issued giving the appropriate cross-references. In the meantime the purchaser should seek the advice of the manufacturer or installer on the topics not yet covered, in order to achieve an acceptable installation.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Section 1. General

1 Scope

This Part of BS 6340 specifies components for shower units in private dwellings and their installation. Shower units in touring caravans and in boats are not covered.

It provides details of minimum performance requirements, in addition to the performance details given in Part 1 of BS 6340, to ensure that the facility provided is adequate and safe. It does not cover requirements for disabled persons and where the shower unit is to be used by a disabled person in a private dwelling, it may be appropriate to seek advice from the local authority social services department. Reference may also be made to specialist publications¹⁾.

NOTE The titles of the publications referred to in this Part of BS 6340 are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 6340 the definitions given in BS 6340-1 apply.

Section 2. Specification of components

3 Hot and cold water supply components

The components of the water installation shall comply with the British Standard specifications referred to in CP 310. Water pumps shall comply with BS 3456-2.35.

4 Instantaneous water heaters

Electric instantaneous water heaters shall comply with BS 3456-3.9. Gas instantaneous water heaters shall comply with BS 5386-1 (EN 26) and shall be capable of installation to clause 23 of BS 5546:1979.

NOTE It should be noted that clause 23 of BS 5546:1979 excludes the choice of a) inlet controlled instantaneous water heaters of the broken feed type and b) small capacity storage water heaters.

5 Shower control valves

Shower control valves shall be either thermostatic or mechanical and in the latter case shall comply with the requirements of BS 1415, BS 5412 or BS 5413.

6 Shower head

The shower head shall comply with the requirements of BS 6340-4.

7 Shower enclosures

The shower enclosure shall be either prefabricated or partially prefabricated and partially formed in situ. Prefabricated shower enclosures shall comply with the requirements of BS 6340-3. Any formed-in-situ parts of the shower enclosure shall comply with the resistance to domestic chemicals and stains and hot water requirements of BS 6340-3 and shall extend for at least 1 800 mm above the floor of the shower tray or bath. Tiling shall be in accordance with the requirements of BS 5385-1²⁾. Any soap/shampoo/sponge dish, seat, support handles and bars, and towel rails supplied separately or formed in situ shall comply with the relevant requirements of BS 6340-3.

The glazing material shall comply with the requirements for class C of BS 6206:1981. In addition the material shall neither fracture nor break under the thermal shock conditions, nor delaminate under the high humidity conditions, likely to exist in a shower unit.

The method of glazing and fixing shall be in accordance with BS 6262 taking the likely thermal shock and high humidity conditions into account.

The materials used shall be rot and vermin proof.

8 Shower trays and baths

8.1 Prefabricated shower trays. Prefabricated shower trays shall comply with the requirements of BS 6340-5, BS 6340-6, BS 6340-7 or BS 6340-8.

8.2 In-situ shower trays. When made of sheet material, the underside shall be treated to minimize vibration and noise transmission. The materials used shall be rot and vermin proof.

8.3 Baths. Baths shall comply with the requirements of BS 1189, BS 1390 or BS 4305.

9 Waste water pipe and fittings

The waste water pipe and fittings shall comply with the British Standard specifications referred to in BS 5572.

10 Marking of packaging

Where shower units or parts of shower units are sold as packages the following information, as appropriate, shall be visibly and legibly marked on the outside packaging.

- a) The maker's or responsible vendor's name or identification mark, and address.
- b) Maker's model or type reference.

¹⁾ Such as "Designing for the Disabled" by Selwyn Goldsmith and published by the Royal Institute of British Architects.

²⁾ A code of practice giving recommendations for floor and wall tiling in special installations is in course of preparation.

- c) That all parts comply with the British Standards referred to in this standard and with the requirements of this standard.
- d) List of parts included.
- e) Type of shower (as given in clause 10 of BS 6340-1:1983).
- f) Exact details of means of temperature and flow control as appropriate (as given in clause 7 of BS 6340-1:1983) e.g.:
 - 1) thermostatic or non-thermostatic;
 - 2) automatic supply pressure compensation;
 - 3) type of mixing.
- g) Type of shower head (including whether adjustable).
- h) Spray form (only required if user variable).
- i) Size of tray or bath.
- j) Size of cabinet (depth × width × height) in metric units (imperial units may be added at manufacturer's option).

11 Instructions for installation and use

Written instructions shall be provided for the installation of the components and shower units.

Written instructions shall be provided for the correct and safe operation and use of the shower unit and shall include the component makers' written instructions and details of how to dismantle and reassemble the shower head to allow cleaning/descaling, and also general cleaning and basic maintenance instructions for the whole shower unit. The installer shall inform the customer of any interactive effects that other water draw-offs may have on the flow rate or temperature at the shower.

Written day-to-day use instructions shall be provided separately, preferably marked on the unit.

NOTE Maintenance of electric or gas water heaters should only be carried out by a competent electrician or fitter.

Section 3. Installation

12 Water supply

The water supply shall be in accordance with CP 310.

13 Electrical installation

The electrical installation shall be in accordance with the manufacturer's instructions and the current edition of the IEE Regulations for the Electrical Equipment of Buildings.

14 Gas installation

The gas installation shall be in accordance with the manufacturer's instructions, BS 5482-1 or BS 5546 and the Gas Safety Regulations.

15 Drainage

The sanitary pipework shall be in accordance with BS 5572.

Publications referred to

- BS 1189, *Cast iron baths for domestic purposes.*
- BS 1390, *Sheet steel baths for domestic purposes.*
- BS 1415, *Mixing valves.*
- BS 3456, *Specification for safety of household and similar electrical appliances.*
- BS 3456-2, *Particular requirements.*
- BS 3456-2.35, *Electrical pumps.*
- BS 3456-3, *Complete particular specifications.*
- BS 3456-3.9, *Stationary instantaneous water heaters.*
- BS 4305, *Baths for domestic purposes made from cast acrylic sheet.*
- BS 5385, *Code of practice for wall tiling.*
- BS 5385-1, *Internal ceramic wall tiling and mosaics in normal conditions.*
- BS 5386, *Specification for gas burning appliances.*
- BS 5386-1, *Gas burning appliances for instantaneous production of hot water for domestic use.*
- BS 5412, *Specification for the performance of draw-off taps with metal bodies for water services.*
- BS 5413, *Specification for the performance of draw-off taps with plastics bodies for water services.*
- BS 5482, *Code of practice for domestic butane- and propane- gas-burning installations.*
- BS 5482-1, *Installations in permanent dwellings.*
- BS 5546, *Code of practice for installation of gas hot water supplies for domestic purposes (2nd family gases).*
- BS 5572, *Code of practice for sanitary pipework (formerly CP 304).*
- BS 6206, *Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings.*
- BS 6262, *Code of practice for glazing for buildings.*
- BS 6340, *Shower units.*
- BS 6340-1, *Guide on choice of shower units and their components for use in private dwellings.*
- BS 6340-3, *Specification for prefabricated shower enclosures.*
- BS 6340-4, *Specification for shower heads.*
- BS 6340-5, *Specification for prefabricated shower trays made from acrylic material.*
- BS 6340-6, *Specification for prefabricated shower trays made from porcelain enamelled cast iron.*
- BS 6340-7, *Specification for prefabricated shower trays made from vitreous enamelled sheet steel.*
- BS 6340-8, *Specification for prefabricated shower trays made from glazed ceramic.*
- CP 310, *Water supply.*

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