

BS 5834-1:2017



BSI Standards Publication

# Surface boxes, guards and underground chambers for the purposes of utilities

Part 1: Specification for guards and plinths

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Published by BSI Standards Limited 2017

ISBN 978 0 580 91488 1

ICS 91.140.40; 91.140.60

The following BSI references relate to the work on this document:

Committee reference B/504

Draft for comment 16/30329500 DC

**Publication history**

First published January 1980

Second edition, September 1985

Third edition, July 2009

Fourth (present) edition, February 2017

**Amendments issued since publication**

Date	Text affected
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## Foreword

### Publishing information

This part of BS 5834 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 28 February 2017. It was prepared by Technical Committee B/504, *Water supply*. A list of organizations represented on this committee can be obtained on request to its secretary.

### Supersession

This part of BS 5834 supersedes BS 5834-1:2009, which is withdrawn.

### Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

*Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.*

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause 11.1, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test may be deemed to conform to this standard.

### Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

## Section 1: General

### 1 Scope

This part of BS 5834 specifies requirements and test methods for:

- a) vitrified clay, unreinforced concrete, and plastic guards and plinths for use with utility apparatus and surface boxes (conforming to BS 5834-2); and
- b) boundary boxes for water service pipes consisting of flow-isolation and meter receptacle suitable for concentric manifold meters with G 1½" and G 2" connections (conforming to BS EN ISO 4064-4), contained within base units and guard tubes made from a thermoplastic or thermoset material for use with surface boxes (conforming to BS 5834-2).

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 65:1991, *Specification for vitrified clay pipes, fittings and ducts, also flexible mechanical joints for use solely with surface water pipes and fittings*

BS 3123, *Specification for spring calipers and spring dividers*

BS 4484-1, *Specification for measuring instruments for constructional works – Part 1: Metric graduation and figuring of instruments for linear measurement*

BS 5433, *Specification for underground stopvalves for water services*

BS 5834-2, *Surface boxes, guards and underground chambers for gas and the purposes of utilities – Part 2: Specification for surface boxes*

BS 8588:2017, *Polyethylene pressure pipe with an aluminium barrier layer and associated fittings for potable water supply in contaminated land – Size 20 mm to 630 mm*

BS EN 197-1, *Cement – Part 1: Composition, specifications and conformity criteria for common cements*

BS EN 197-4, *Cement – Part 4: Composition, specifications and conformity criteria for low early strength blastfurnace cements*

BS EN 450-1:2012, *Fly ash for concrete – Part 1: Definition, specifications and conformity criteria*

BS EN 934-2, *Admixtures for concrete, mortar and grout – Part 2: Concrete admixtures – Definitions, requirements, conformity, marking and labelling*

BS EN 1008:2002, *Mixing water for concrete – Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*

BS EN 12201-1, *Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 1: General*

BS EN 12201-2, *Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes*

BS EN 12390-2, *Testing hardened concrete – Part 2: Making and curing specimens for strength tests*

BS EN 12390-3, *Testing hardened concrete – Part 3: Compressive strength test specimens*