Surface boxes, guards and underground chambers for the purposes of utilities
Part 1: Specification for guards and plinths
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Summary of pages
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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This part of BS 5834 supersedes BS 5834-1:2009, which is withdrawn.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 J.1.1, 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 will 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