The British Concrete Standard (BS 8500) 3rd edition published April 2015

Dear Sir,

The first edition of TR52 Plain formed concrete finishes was first published in 1999. Since its publication many references to concrete finishes have changed, in particular BS 8110 Structural use of concrete, which has been withdrawn, and the publication of the European Standard BS EN 13670 Execution of concrete structures(2). On the back of these changes many specifications have been updated.

This second edition of the Technical Report has been published following a comprehensive review of the first edition. The report compares the main specifications in current use, but it does not set out to stipulate how plain formed concrete finishes should be produced.

It also illustrates 20 ‘plain formed concrete finishes’ on actual concrete structures, with photographs taken especially under controlled conditions. The examples were all considered to meet their particular specifications; thus, they provide a reference to the quality of work being achieved in the building and civil engineering industry. Details of the concrete mix proportions, specifications and the type of formwork used are given with each example.

Also illustrated are some of the CONSTRUCT reference panels, now described in line with BS EN 13670, some of the CBDG reference panels in line with Highways England’s Specification for Highway Works (2) and also some high-strength concrete reference panels.

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References

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Dear Sir,

The British Standard Concrete Committees for Concrete and Concrete Production and testing met on 22 April 2015 and approved the British Standard for Concrete (BS 8500(1)) 3rd edition for publication. The date of publication is April 2015 but the Standard will not come into effect until 30 June 2015.

Most of the revision is to fully align with the European Standard for Concrete (EN 206(2)) published in 2013 but it has also been aligned with other Standards that have been revised since 2006. Aspects of note are:

- Changes to align with the European Standard for Aggregate for concrete (EN 12620(3)), including alignment with the European Standard for the classification of coarse recycled aggregates (EN 933-11(4)).
- Making it clearer that product conformity certification is a requirement for designated concrete and that the certification conforms to minimum requirements as proposed by QSRMC and the BSI Kitemark Scheme for Ready-Mixed Concrete.
- The inclusion of designated cement-bound ‘CB’ concrete suitable for vibrating plate or roller compaction to a target density. This covers a range of dry-lean and roller-compacted concretes specified by characteristic strength and using cements and combinations outside the scope of EN 14227-1(5).
- Durability requirements for seawater exposure aligned to the maritime Standard BS 6349-1-4:2013(6).
- Modified requirements for concrete to resist freezing and thawing.
- The use of lower d and upper D by the specifier to define the required upper and lower size of the coarsest aggregate.
- Replace references to sulfate-resisting Portland cement by the nomenclature of the European equivalent cements CEM I-SR0 and CEM I-SR3.
- Guidance for the specifier on the maximum time between placing layers and some guidance with respect to concrete for geotechnical works.
- Recommendations for slump-flow identity testing and consistency retention testing.
- The deletion of the interlinked indexes in BS 8500-1 and BS 8500-2 with requirements in EN 206. Essentially this has been replaced by a new BS 8500-2 Annex D that lists the links between the British and European Concrete Standards.

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References