

Concrete —

Part 3: Specification for the procedures to be used in producing and transporting concrete

ICS 91.100.30

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Cement, Gypsum, Aggregates and Quarry Products Standards Policy Committee (CAB/-) to Technical Committee CAB/4, upon which the following bodies were represented:

Association of Lightweight Aggregate Manufacturers
 Association of Metropolitan Authorities
 Association of Quality Pulverised Fuel Ash Suppliers
 British Aggregate Construction Materials Industries
 British Cement Association
 British Civil Engineering Test Equipment Manufacturers' Association
 British Precast Concrete Federation
 British Ready Mixed Concrete Association
 Building Employers' Confederation
 Cement Admixtures Association
 Cementitious Slag Makers Association
 Concrete Society
 County Surveyors' Society
 Department of the Environment (Building Research Establishment)
 Department of the Environment (Property Services Agency)
 Department of Transport
 Department of Transport (Transport and Road Research Laboratory)
 Electricity Association
 Federation of Civil Engineering Contractors
 Institute of Concrete Technology
 Institution of Civil Engineers
 Institution of Highways and Transportation
 Institution of Structural Engineers
 Institution of Water and Environmental Management
 Royal Institution of Chartered Surveyors
 Sand and Gravel Association
 Society of Chemical Industry

This British Standard, having been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 30 November 1990

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Foreword

This Part of BS 5328 has been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Policy Committee. This Part, together with BS 5328-1, BS 5328-2 and BS 5328-4, is a revision of BS 5328 :1981, which is withdrawn, and forms a comprehensive standard for the specification of concrete to which codes of practice and contractual documents can refer. It includes recommendations originating from, and complementing clauses in, BS 8110-1.

As this standard involves selection by the specifier from a number of options and, in certain circumstances, agreement on requirements between the purchaser and producer, any requirement for compliance with BS 5328 or any claim of compliance with it has to be qualified by reference to the selection and to any such agreements.

This standard covers the methods for specifying and producing concrete as a construction material up to the point of delivery into the construction. The standard is now in four Parts:

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| Part 1. | Guide to specifying concrete |
| Part 2. | Methods for specifying concrete mixes |
| Part 3. | Specification for the procedures to be used in producing and transporting concrete |
| Part 4. | Specification for the procedures to be used in sampling, testing and assessing compliance of concrete |

Part 1 provides guidance to the specifier and purchaser of concrete on the selection of requirements for materials and concrete mixes. Part 2 provides a choice of methods by which the purchaser can convey the selected requirements to the producer. Part 3 specifies for the producer the procedures to be used in producing and transporting the concrete. Part 4 specifies the procedures to be used by the purchaser in sampling, testing and assessing concrete for compliance.

This standard provides methods for specifying concrete mixed on site or in a precast concrete factory and for the purchase and supply of ready-mixed concrete. It takes account of the distinct and different responsibilities of the purchaser and the producer. There are a number of instances in which the purchaser has to select from the various options given in this standard in order to specify the concrete required. The purchaser is responsible for passing on to the producer the requirements of the specifying body, e.g. the engineer's or architect's specification, together with any additional requirements. Throughout this standard the terms 'specify' and 'specification' are used in relation to both sets of requirements. There may be occasions where it is advantageous for economic or technical reasons to propose changes to the specification. In such cases the producer and purchaser should agree the proposed amendments for approval and sanction by the specifying body.

Precautions need to be taken when working with cement and wet concrete and attention is drawn to these in BS 5328-3 and BS 5328-4.

This standard covers concrete produced by normal methods, but it does not apply to precast concrete products where British Standard specifications contain the specification of the concrete. Many of the requirements of the standard, e.g. the use of materials and the control of production, apply equally to precast concrete and to in situ concrete. However, some of its requirements concerning the responsibilities of the purchaser and producer may not apply in the case of precast concrete. The specification of designated mixes is unlikely to be appropriate for factory produced precast concrete products.

Amendment number 4 takes account of the recent consensus reached by experts on provisions to resist damaging ASR in the UK. These recommendations are published in BRE Digest 330:1999. The technical content of this amendment has been derived from these recommendations.

It is necessary for the purchaser to take into account the requirements of specialized codes of practice and any influences of the construction process. Provisions are made in this standard for the inclusion of any special requirements.

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 does not of itself confer immunity from legal obligations.

Summary of pages

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