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Testing of concrete —

Part 3: Making and curing test specimens

Essais du béton —

Partie 3: Confection et prise des éprouvettes

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and prestressed concrete,* Subcommittee SC 1, *Test methods for concrete.*

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This second edition cancels and replaces the first edition (ISO 1920-3:2004), which has been technically revised.

The main changes compared to the previous edition are as follows:

— tolerances of specimens and moulds have been redefined;

— the concept of preparation and filling has been is redrafted;

— preferred methods of compaction on the basis of slump value have been included and defined;

— the capping of cylindrical specimens for compressive strength has been included and defined;

— the curing of test specimens under hot climate has been defined.

A list of all parts in the ISO 1920 series can be found on the ISO website.

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Testing of concrete —

Part 3:
Making and curing test specimens

WARNING — Some concrete specimens can be too heavy for one person to carry and it is necessary that appropriate means be arranged to carry them. The use of vibrating equipment, such as vibration tables, can cause damage to joints and loss of sensation due to nerve damage. It is necessary that moulds, density containers, etc., be clamped to the table and not held in position using one's hands while they are being vibrated.

1 Scope

This document specifies the shape and dimensions of concrete test specimens for strength tests and the methods of making and curing these test specimens.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1920-1, *Testing of concrete — Part 1: Sampling of fresh concrete*

ISO 1101, *Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

3 Terms and definitions

For the purpose of this document, the terms and definitions given in ISO 1101 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
nominal size
<specimen> range of commonly used specimen sizes among which a preferred size is specified in this document

3.2
designated size
<specimen> specimen size selected and declared by the user of this document from among the permitted range of *nominal sizes* (3.1)

Note 1 to entry: The size of specimens is expressed in millimetres.

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