
International Standard



2736/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Concrete tests — Test specimens —
Part 1 : Sampling of fresh concrete**

Essais du béton — Éprouvettes — Partie 1 : Échantillonnage du béton frais

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Descriptors : concrete, fresh concrete, tests, sampling.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 2736/1 was prepared by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and pre-stressed concrete*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Concrete tests — Test specimens — Part 1 : Sampling of fresh concrete

1 Scope and field of application

This part of ISO 2736 specifies methods of sampling fresh concrete.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1 batch : Unit of concrete which is required for sampling.

2.2 sample : Quantity of concrete representative of a batch or mass of concrete, the properties of which are to be determined, usually consisting of a number of increments.

2.3 increment : Quantity of concrete taken by the single operation of a scoop.

3 Procedure

The purpose for which the samples are required shall be considered and then a place and method of sampling the concrete about which information is required shall be chosen.

The sample shall be at least 1,5 times the quantity needed to make the test specimens or to perform the tests on fresh concrete, and shall be at least 0,02 m³ in volume.

The sample shall normally consist of at least three increments taken from positions equally distributed throughout the mass of concrete represented by the sample. In cases where it is not the

intended purpose to obtain a sample representative of a larger mass of concrete, but to investigate the uniformity of a certain mass of concrete or to draw random (local) samples, etc., the sample may consist of only one increment, and may in special cases be less than 0,02 m³. When taking the increments from the discharge of a mixer, the very first and very last parts, where extreme segregation may have occurred, shall be avoided.

The increments shall immediately be placed on a clean surface or in a clean container, made of non-absorbent material.

Just before moulds are filled or tests on the fresh concrete are carried out, the concrete sample shall be remixed thoroughly with a shovel, scoop or trowel to ensure uniformity.

The period between sampling and either mould-filling or testing of the fresh concrete shall be as short as possible.

At all stages of sampling, transport and handling, the fresh concrete samples shall be protected against gaining or losing water, against excessive temperatures, and segregation.

4 Recording of samples

The following information shall be recorded for each sample :

- a) date, time and detailed procedure of sampling (i.e. number and distribution of increments and time intervals between taking);
- b) identification of sample and mix description;
- c) location of sampled concrete in the structure or concrete mass.

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