
International Standard



4111

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

Fresh concrete — Determination of consistency — Degree of compactibility (Compaction index)

Béton frais — Détermination de la consistance — Degré de compactibilité

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Descriptors : concrete, fresh concrete, tests, mechanical tests, compacting, measurement, consistency.

Foreword

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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.

International Standard ISO 4111 was developed by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and pre-stressed concrete*, and was circulated to the member bodies in September 1977.

It has been approved by the members bodies of the following countries :

Austria	Germany, F.R.	Portugal
Belgium	India	Romania
Bulgaria	Israel	South Africa, Rep. of
Canada	Italy	Spain
Chile	Korea, Rep. of	Switzerland
Czechoslovakia	Mexico	Turkey
Denmark	Netherlands	USA
Egypt, Arab Rep. of	Norway	USSR
France	Philippines	Yugoslavia

The member body of the following country expressed disapproval of the document on technical grounds :

United Kingdom

Fresh concrete — Determination of consistency — Degree of compactibility (Compaction index)

1 Scope and field of application

This International Standard specifies a method for the determination of the consistency of fresh concrete by evaluating the degree of compactibility.

This method is considered applicable to concrete of every consistency except very fluid concrete. It is not applicable to concrete having a maximum aggregate size exceeding 40 mm.

2 References

ISO 2736, *Concrete — Sampling, making and curing of test specimens.*¹⁾

ISO 4109, *Fresh concrete — Determination of consistency — Slump test.*¹⁾

ISO 4110, *Fresh concrete — Determination of consistency — Vebe test.*¹⁾

3 Apparatus

3.1 Container, having smooth and sufficiently stiff side walls, made of a material which is not readily attacked by the cement paste, with base dimensions of 200 ± 2 mm \times 200 ± 2 mm and a height of 400 ± 2 mm.

The container may be replaced by a 200 mm cubic mould. A filling frame may be used to attain a height of 400 mm.

3.2 Trowel (see figure 1), to be used for filling the container.

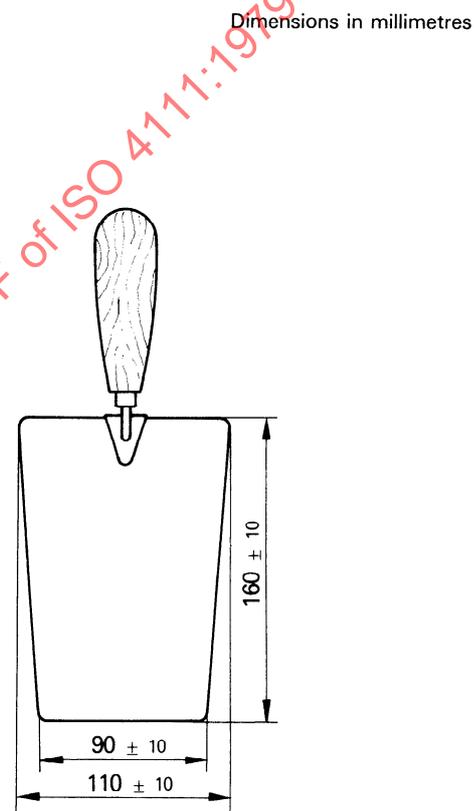


Figure 1 — Trowel

1) At present at the stage of draft.