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Concrete tests — Consistence of freshly mixed concrete — Slump test
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SANS 5862-1:2006
Edition 2.1

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<td>Amdt 1</td>
<td>2006</td>
<td>Amended to change the designation of SABS standards to SANS standards, with no technical changes.</td>
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Foreword

This South African standard was prepared by National Committee SABS/TC 081/SC 01, Construction materials, products and test methods – Cement, lime and concrete, in accordance with procedures of the South African Bureau of Standards, in compliance with annex 3 of the WTO/TBT agreement.

This edition is technically identical to the first revision (SABS SM 862-1:1994).

SANS 5862 consists of the following parts, under the general title Concrete tests – Consistence of freshly mixed concrete:

- Part 1: Slump test.
- Part 2: Flow test.
- Part 3: Vebe test.
- Part 4: Compacting factor and compaction index.

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Reaffirmed and reprinted in March 2019. This document will be reviewed every five years and be reaffirmed, amended, revised or withdrawn.

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Concrete tests — Consistence of freshly mixed concrete — Slump test

1 Scope

This part of SANS 5862 specifies a method of determining the slump of freshly mixed concrete, mixed both in the laboratory (see SANS 5861-1) and on site.

NOTES

1 The test method applies to plastic and cohesive concrete that has a measured slump of not less than 5 mm and not more than 175 mm.

2 The test method applies to plain and air-entrained concrete, made with aggregates of low, normal or high density and of maximum nominal size 40 mm.

3 The test method is not applicable to superplasticized concrete, since it is very difficult to measure aerated concrete and no-fines concrete.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of SANS 5862. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this part of SANS 5862 are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the South African Bureau of Standards.

SANS 5861-1, Concrete tests — Part 1: Mixing fresh concrete in the laboratory.

SANS 5861-2, Concrete tests — Part 2: Sampling of freshly mixed concrete.

3 Definitions

For the purposes of this part of SANS 5862, the following definitions apply.

3.1 aerated concrete
concrete made light and cellular by the addition of a prepared foam or by the generation of gas within the unhardened mixture