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SOUTH AFRICAN NATIONAL STANDARD

Concrete tests

Part 2: Sampling of freshly mixed concrete
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<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 SABS, in compliance with annex 3 of the WTO/TBT agreement.

This edition is technically identical to the first revision (SABS SM 861-2:1994).

SANS 5861 consists of the following parts, under the general title, Concrete tests:

Part 1: Mixing fresh concrete in the laboratory.

Part 2: Sampling of freshly mixed concrete.

Part 3: Making and curing of test specimens.

Compliance with this document cannot confer immunity from legal obligations.

Reaffirmed and reprinted in July 2017. This document will be reviewed every five years and be reaffirmed, amended, revised or withdrawn.
Concrete tests

Part 2:
Sampling of freshly mixed concrete

1 Scope

This part of SANS 5861 covers procedures for obtaining samples of freshly mixed concrete that have been delivered in measured or measurable quantities to a site or mixed in a laboratory, and on which tests to determine compliance with the requirements of the relevant standard(s) are to be performed.

2 Definitions

For the purposes of this part of SANS 5861, the following definitions apply:

2.1 batch
unit or a defined quantity of freshly mixed concrete that is to be sampled

2.2 increment
quantity of concrete taken by the single operation of a scoop

2.3 sample
quantity of concrete that is representative of a batch, that usually consists of a number of increments and of which the properties are to be determined

3 Apparatus

3.1 Scoops, that are fitted with handles, are made of a metal that is not readily attacked by cement, and are of known capacity so that the volume of concrete taken is known.

3.1.1 For sampling from a moving stream of concrete, use a box-shaped scoop that has a handle long enough to be held safely and easily with both hands, and that has side-walls that are high enough to prevent excessive spilling of concrete.

3.1.2 For sampling from static concrete, use a scoop that is in the form of a shovel that has a high back and high side-walls, to facilitate penetration into the concrete.

3.2 Containers, that are of a size suitable for collecting the required increments of concrete, and that have adequate rigidity, are watertight and are made of a material that is not readily attacked by cement.