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SOUTH AFRICAN NATIONAL STANDARD

**The design and construction of sectional
steel tanks for storage of liquids at or
above ground level**

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568
www.sabs.co.za
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Table of changes

Change No.	Date	Scope
Amdt 1	2004	Amended to update the referenced standards, to redefine "acceptable", and to change the designation of a SABS standard to a SANS standard.
Amdt 2	2010	Amended to update referenced standards, and to modify the requirements for materials.
Amdt 3	2012	Amended to update referenced standards.

Foreword

This South African standard was approved by National Committee SABS SC 138G, *Water and sanitation – Equipment and systems – Plumbing components*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in June 2012.

This document supersedes SANS 10329:2010 (edition 1.2).

A vertical line in the margin shows where the text has been technically modified by amendment No. 3.

Annex A forms an integral part of this document. Annex B is for information only.

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The design and construction of sectional steel tanks for storage of liquids at or above ground level

1 Scope

1.1 This standard contains provisions for sectional steel tanks with or without covers, for the storage of liquids at or above ground level. Two types of tank construction are specified.

1.2 This standard does not cover tanks that are to be used for the storage of hazardous substances.

1.3 This standard does not cover tanks that operate under pressurized or vacuum conditions.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. 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 standard 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 SABS Standards Division.

ASTM A 1008, *Standard specification for steel, sheet, cold-rolled, carbon, structural, high-strength low-alloy, high-strength low-alloy with improved formability, solution hardened, and bake hardenable.* **Amdt 1**

ASTM A 1011, *Standard specification for steel, sheet and strip, hot-rolled, carbon, structural, high-strength low-alloy, high-strength low-alloy with improved formability, and ultra-high strength.* **Amdt 1**

SANS 32/EN 10240, *Internal and/or external protective coatings for steel tubes – Specification for hot dip galvanized coatings applied in automatic plants.* **Amdt 1**

SANS 62-1, *Steel pipes – Part 1: Pipes suitable for threading and of nominal size not exceeding 150 mm.*

SANS 62-2, *Steel pipes – Part 2: Screwed pieces and pipe fittings of nominal size not exceeding 150 mm.*

SANS 121/ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods.* **Amdt 1**

SANS 455, *Covered electrodes for the manual arc welding of carbon and carbon manganese steels.*