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**SANS 1294:2012**

Edition 2.1

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Precast concrete manhole sections and components**

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**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
Amdt 1	2012	Amended to update referenced standards.

**Foreword**

This South African standard was approved by National Committee SABS SC 59A, *Construction standards – Cement, lime and concrete*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in July 2012.

This document supersedes SANS 1294: 2006 (edition 2).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

Annex A forms an integral part of this document. Annexes B and C are for information only.

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## **Precast concrete manhole sections and components**

### **1 Scope**

This standard covers precast concrete sections, slabs, bases, lids and frames intended for use in the construction of manholes (including inspection chambers) in stormwater, drainage, and sewage pipelines.

### **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 C494, *Standard specification for chemical admixtures for concrete.*

BS 4482, *Specification for steel wire for the reinforcement of concrete products.*

SANS 558, *Cast iron surface boxes and manhole and inspection covers and frames.*

SANS 920, *Steel bars for concrete reinforcement.*

SANS 1024, *Welded steel fabric for reinforcement of concrete.*

SANS 1083, *Aggregates from natural sources – Aggregates for concrete.*

~~SANS 1491-1, *Portland cement extenders – Part 1: Ground granulated blast-furnace slag.*~~ Amdt 1 |

~~SANS 1491-2, *Portland cement extenders – Part 2: Fly ash.*~~ Amdt 1 |

~~SANS 1491-3, *Portland cement extenders – Part 3: Silica fume.*~~ Amdt 1 |

SANS 50197-1/EN 197-1, *Cement – Part 1: Composition, specifications and conformity criteria for common cements.*

SANS 50413-1/EN 413-1, *Masonry cement – Part 1: Composition, specifications and conformity criteria.*

SANS 50450-1/EN 450-1, *Fly ash for concrete – Part 1: Definition, specifications and conformity criteria.* Amdt 1 |

SANS 50450-2/EN 450-2, *Fly ash for concrete – Part 2: Conformity evaluation.* Amdt 1 |