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**SANS 791:2014**

Edition 5.4

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Unplasticized poly(vinyl chloride) (PVC-U) sewer and drain pipes and pipe fittings**

**WARNING**

**This standard references other  
documents normatively.**

**SANS 791:2014**  
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**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
Amdt 1	2004	Amended to include normative reference SANS 50681-1.
Amdt 2	2010	Amended to update referenced standards, to correct a cross-reference, to delete reference to the certification mark, and to correct a table number.
Amdt 3	2013	Amended to add restrictions for additives, to modify the requirements for snap caps and securing rings, and to correct a cross-reference.
Amdt 4	2014	Amended to modify the dimensions of sockets of pipe fittings (table 4), update a recommendation for storage in the annex on notes to users of PVC-U pipes (annex B) and the requirements for methylene chloride test.

**Acknowledgement**

The SABS Standards Division wishes to acknowledge the valuable assistance derived from publications of the International Organization for Standardization.

**Foreword**

This South African standard was approved by National Committee SABS/138/SC 03, *Water and sanitation – Equipment and systems – Plastics pipes and fittings*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in May 2014.

This document supersedes SANS 791:2013 (edition 5.3).

A vertical line in the margin shows where the text has been technically modified by amendment No. 4.

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

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# **Unplasticized poly(vinyl chloride) (PVC-U) sewer and drain pipes and pipe fittings**

## **1 Scope**

This standard covers two duties (normal and heavy) of unplasticized poly(vinyl chloride) (PVC-U) pipes of nominal sizes 110 mm to 630 mm and one duty of PVC-U pipe fittings of nominal sizes 110 mm and 160 mm, intended for underground non-pressure applications in the construction of sewers and drains where temperatures continuously in excess of 60 °C are not encountered.

The standard covers fittings manufactured predominantly by the injection-moulding process, but does not cover fittings produced by fabrication only.

It also covers two methods of jointing, namely by means of solvent cement (for pipes of nominal size not exceeding 200 mm) and by means of rubber joint rings.

**NOTE** Where the use of pipes and fittings that comply with the requirements of this standard is proposed for the disposal of untreated trade waste or for prolonged discharges at elevated temperatures, enquiries concerning the suitability of the material for this use should be directed to the manufacturer of the pipes and fittings.

## **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.

SANS 51/ISO 580, *Plastics piping and ducting systems – Injection-moulded thermoplastics fittings – Methods for visually assessing the effects of heating.*

SANS 130-1/ISO 1167-1, *Thermoplastics pipes, fittings and assemblies for the conveyance of fluids – Determination of the resistance to internal pressure – Part 1: General method.* **Amdt 2**

SANS 1091, *National colour standard.*