MAURITIAN STANDARD

MS ISO 4435:2003

First edition
2008-12-06

Plastics piping systems for non-pressure underground drainage and sewerage – Unplasticized poly(vinyl chloride) (PVC-U)

ICS 83.140.30; 93.030

Mauritius Standards Bureau
Moka

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National foreword

This Mauritian Standard is identical with **ISO 4435:2003(E)**, *Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride) (PVC-U). It* was adopted by the Mauritius Standards Bureau on the recommendation of the **Building and Construction Standards Committee** through its **Subcommittee on Plastics Pipes and Fittings**. It was approved by the **Standards Council** on 5 November 2008 and was notified in the Government Gazette on 6 December 2008*.

For the purpose of this standard the following changes should be made:

(i) the words '*International Standard*' should be replaced by '*Mauritian Standard*'.

(ii) the '*decimal comma*' should be replaced by the '*decimal point*'.

In the national standard, table 15 on *Minimum required marking of pipes* has been adopted without any change, but an additional item, not included in the International Standard, has been specified as below:

Clause/Subclause	Modifications
Clause 12.2, table 15 on **Minimum required marking of pipes**	Add *'intended use*' under column '**Item**' and add '*Non-pressure underground sewerage*' under column '**Marking or symbol**'

Explanation: The addition has been made so as to prevent misuse of these pipes for those used for potable water.

*General Notice No.2311 of 2008

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4435 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 1, *Plastics pipes and fittings for soil, waste and drainage (including land drainage)*.

This second edition cancels and replaces the first edition (ISO 4435:1991), which has been technically revised.

Plastics piping systems for non-pressure underground drainage and sewerage — Unplasticized poly(vinyl chloride) (PVC-U)

1 Scope

This International Standard specifies the requirements for unplasticized poly(vinyl chloride) (PVC-U) pipes, fittings and piping systems intended for use for non-pressure underground drainage and sewerage for the conveyance of soil and waste discharge of domestic and industrial origin, as well as surface water.

It covers buried pipework but does not apply to piping systems buried within the building structure.

In the case of industrial discharge, the chemical and temperature resistance have to be taken into account, but this will have to be done separately.

This International Standard is applicable to PVC-U pipes with or without an integral socket.

Fittings may be manufactured (i.e. produced on a large scale) by injection-moulding or be fabricated (i.e. produced on a small scale) from pipes and/or mouldings.

This International Standard also specifies the test parameters for the test methods referred to herein.

It does not cover requirements for the K-value of the raw material.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 265-1, *Pipes and fittings of plastics materials — Fittings for domestic and industrial waste pipes — Basic dimensions: Metric series — Part 1: Unplasticized poly(vinyl chloride) (PVC-U)*

ISO 3126:—[1)], *Plastics piping systems — Plastics piping components — Measurement and determination of dimensions*

ISO 4633, *Rubber seals — Joint rings for water supply, drainage and sewerage pipelines — Specification for materials*

EN 580, *Plastics piping systems — Unplasticized poly(vinyl chloride) (PVC-U) pipes — Test method for the resistance to dichloromethane at a specified temperature (DCMT)*

EN 727, *Plastics piping and ducting systems — Thermoplastics pipes and fittings — Determination of Vicat softening temperature (VST)*

1) To be published. (Revision of ISO 3126:1974)

