

SVENSK STANDARD

SS-EN ISO 1452-5:2010

Fastställt/Approved: 2010-10-08
Publicerad/Published: 2010-11-30
Utgåva/Edition: 2
Språk/Language: engelska/English
ICS: 23.040.01; 23.040.20; 23.040.45; 91.140.60; 93.025

Plaströrssystem – Plaströr för vattendistribution, i mark och ovan jord för avlopp under tryck – (PVC-U) – Del 5: Systemanpassning (ISO 1452-5:2009, corrected version 2010-03-01)

**Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure –
Unplasticized poly(vinyl chloride) (PVC-U) –
Part 5: Fitness for purpose of the system (ISO 1452-5:2009, corrected version 2010-03-01)**

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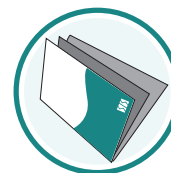
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Denna standard ersätter SS-EN ISO 1452-5:2009, utgåva 1.

The European Standard EN ISO 1452-5:2010 has the status of a Swedish Standard. This document contains the official English version of EN ISO 1452-5:2010.

This standard supersedes the Swedish Standard SS-EN ISO 1452-5:2009, edition 1.

This corrected version from 2010-03-01 of ISO 1452-5 is identical to ISO 1452-5:2009, the corrections referred to in the title are made in the french language version.

Den här rättade versionen från 2010-03-01 av ISO 1452-5 är identisk med ISO 1452-5:2009, rättelserna som refereras till i titeln är gjorda i den franska språkversionen.

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Standarden är framtagen av kommittén för Tryckrör och -rördelar av plast för vattenledningar, SIS/TK 226/AG 2.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD

EN ISO 1452-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2010

ICS 93.025; 91.140.60; 23.040.20; 23.040.45

Supersedes EN ISO 1452-5:2009

English Version

**Plastics piping systems for water supply and for buried and
above-ground drainage and sewerage under pressure -
Unplasticized poly(vinyl chloride) (PVC-U) - Part 5: Fitness for
purpose of the system (ISO 1452-5:2009, corrected version
2010-03-01)**

Systèmes de canalisations en plastique pour l'alimentation en eau, pour branchements et collecteurs d'assainissement enterrés et aériens avec pression - Poly(chlorure de vinyle) non plastifié (PVC-U) - Partie 5: Aptitude à l'emploi du système (ISO 1452-5:2009, version corrigée 2010-03-01)

Kunststoff-Rohrleitungssysteme für die Wasserversorgung und für erdverlegte und nicht erdverlegte Entwässerungs- und Abwasserdruckleitungen - Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 5: Gebrauchstauglichkeit des Systems (ISO 1452-5:2009, korrigierte Fassung 2010-03-01)

This European Standard was approved by CEN on 23 September 2010.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Foreword

The text of ISO 1452-5:2009, corrected version 2010-03-01 has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1452-5:2010 by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.

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

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Endorsement notice

The text of ISO 1452-5:2009, corrected version 2010-03-01 has been approved by CEN as a EN ISO 1452-5:2010 without any modification.

Introduction

The System Standard, of which this is Part 5, specifies the requirements for a piping system and its components made from unplasticized poly(vinyl chloride) (PVC-U). The piping system is intended to be used for water supply and for buried and above-ground drainage and sewerage under pressure.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the products covered by this part of ISO 1452, the following are relevant.

- a) This part of ISO 1452 provides no information as to whether the products may be used without restriction;
- b) Existing national regulations concerning the use and/or the characteristics of these products remain in force.

Requirements and test methods for components requirements and test methods are specified in ISO 1452-2, ISO 1452-3 and ISO 1452-4.

This part of ISO 1452 establishes the characteristics of fitness for purpose of the plastics piping system composed of pipes, fittings, valves, ancillaries and their joints.

Guidance for installation is given in ISO/TR 4191^[1].

Guidance for assessment of conformity is provided in ENV 1452-7^[2].

Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure — Unplasticized poly(vinyl chloride) (PVC-U) —

Part 5: Fitness for purpose of the system

1 Scope

This part of ISO 1452 specifies the characteristics for the fitness for purpose of unplasticized poly(vinyl chloride) (PVC-U) piping systems intended for water supply and for buried and above-ground drainage and sewerage under pressure.

It also specifies the test parameters for the test methods referred to in this part of ISO 1452.

In conjunction with ISO 1452-1, ISO 1452-2, ISO 1452-3 and ISO 1452-4, it is applicable to joints and assemblies with components of PVC-U, other plastics and non-plastics materials intended to be used for the following:

- a) water mains and services buried in ground;
- b) conveyance of water above ground for both outside and inside buildings;
- c) buried and above-ground drainage and sewerage under pressure;

It is applicable to piping systems intended for the supply of water under pressure up to and including 25 °C (cold water) intended for human consumption and for general purposes as well as for waste water under pressure.

This part of ISO 1452 is also applicable to components for the conveyance of water and waste water up to and including 45 °C. For temperatures between 25 °C and 45 °C, Figure A.1 of ISO 1452-2:2009 applies.

NOTE The producer and the end-user can come to agreement on the possibilities of use for temperatures above 45 °C on a case-by-case basis.

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 1452-1, *Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: General*

ISO 1452-2:2009, *Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 2: Pipes*