

**01-april-2023****Nadomešča:**  
**SIST EN 14830:2007**

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**Cevni sistemi iz polimernih materialov za odpadno vodo in kanalizacijo, ki delujejo po težnostnem principu in so položeni v zemljo - Plastomerni revizijski in vstopni jaški - Metode preskušanja odpornosti proti uklonu (ISO 13267:2022)**

Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics inspection chamber and manhole bases - Test methods for buckling resistance (ISO 13267:2022)

Kunststoff-Rohrleitungssysteme aus Thermoplasten für erdverlegte drucklose Abwasserkanäle und -leitungen - Böden von Kontroll- und Einsteigschächten aus Thermoplasten - Prüfverfahren für die Widerstandsfähigkeit gegen Einbeulen (ISO 13267:2022)

Systèmes de canalisations thermoplastiques pour branchements et collecteurs d'assainissement enterrés sans pression - Éléments de fond de boîtes d'inspection et de branchement et de regards thermoplastiques - Méthode d'essai de résistance au flambage (ISO 13267:2022)

**Ta slovenski standard je istoveten z: EN ISO 13267:2023**

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**ICS:**

23.040.20	Cevi iz polimernih materialov	Plastics pipes
91.140.80	Drenažni sistemi	Drainage systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

**SIST EN ISO 13267:2023****en,fr,de**



EUROPEAN STANDARD

EN ISO 13267

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2023

ICS 23.040.20; 23.040.45; 91.140.80; 93.030

Supersedes EN 14830:2006

English Version

Thermoplastics piping systems for non-pressure  
underground drainage and sewerage - Thermoplastics  
inspection chamber and manhole bases - Test methods for  
buckling resistance (ISO 13267:2022)

Systèmes de canalisations thermoplastiques pour  
branchements et collecteurs d'assainissement enterrés  
sans pression - Éléments de fond de boîtes d'inspection  
et de branchement et de regards thermoplastiques -  
Méthode d'essai de résistance au flambage (ISO  
13267:2022)

Kunststoff-Rohrleitungssysteme aus Thermoplasten  
für erdverlegte drucklose Abwasserkanäle und -  
leitungen - Böden von Kontroll- und Einsteigschächten  
aus Thermoplasten - Prüfverfahren für die  
Widerstandsfähigkeit gegen Einbeulen (ISO  
13267:2022)

This European Standard was approved by CEN on 2 January 2023.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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SIST EN ISO 13267:2023

<https://standards.iteh.ai/catalog/standards/sist/54bb8a22-a09a-48a5-8c65-deb50d12b3d1/sist-en-iso-13267-2023>

## European foreword

The text of ISO 13267:2022 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 13267:2023 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 July 2023, and conflicting national standards shall be withdrawn at the latest by July 2023.

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

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The text of ISO 13267:2022 has been approved by CEN as EN ISO 13267:2023 without any modification.



INTERNATIONAL  
STANDARD

ISO  
13267

Second edition  
2022-06

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**Thermoplastics piping systems for  
non-pressure underground drainage  
and sewerage — Thermoplastics  
inspection chamber and manhole  
bases — Test methods for buckling  
resistance**

iTeh STANDARD PREVIEW

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*Systèmes de canalisations thermoplastiques pour branchements  
et collecteurs d'assainissement enterrés sans pression — Éléments  
de fond de boîtes d'inspection et de branchement et de regards  
thermoplastiques — Méthode d'essai de résistance au flambage*

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## ISO 13267:2022(E)

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document 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 13267:2010), which has been technically revised.

The main changes are as follows:

- normative references have been updated;
- definitions have been removed;
- technical changes have been made in [8.1](#), including new figures;
- minor editorial changes have been made.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Thermoplastics piping systems for non-pressure underground drainage and sewerage — Thermoplastics inspection chamber and manhole bases — Test methods for buckling resistance

## 1 Scope

This document specifies methods of test for the resistance of the base of thermoplastics inspection chambers and manholes to external soil and ground-water pressure after installation.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 9967:2016, *Thermoplastics pipes — Determination of creep ratio*

CEN/TS 1046:2021, *Thermoplastics piping and ducting systems — Outside the building structures for gravity and pressurised systems — Trench installation*

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

## 4 Principle

A sealed test assembly, comprising an inspection chamber or manhole base with a minimum height of 300 mm above the top of the main channel, is placed free standing, or buried in a test box on a 100 mm sand or granular bed and covered with granular backfill to a level of minimum 300 mm above the top of the outlets and inlets of the main channel(s). In some cases, the first section of the riser may be required in order to achieve the minimum height of 300 mm.

The assembly is then subjected to a constant internal negative pressure, specified by the product or system standard, for a specified time at a temperature of between 15 °C and 25 °C or as otherwise specified in the product standard.

Alternatively, the pressure difference can be achieved by exposing the test assembly to a constant positive external hydrostatic pressure of the same numeric value as that specified by the product or system standard. The assembly is submerged under water in a closed tank for a specified time at a temperature of between 15 °C and 25 °C or as otherwise specified in the product standard.

During the test, the assembly may be monitored by measuring increasing deflections with time as defined in the product standard.

At the end of the test, the chamber base/manhole is visually checked for cracking or other defects likely to impair the performance of the inspection chamber or manhole.