
**Cevni sistemi za obnovo podzemnih odtokov, kanalizacije in vodovodnih omrežij -
2. del: Duromerni kompozitni materiali (ISO 11300-2:2026)**

Piping systems for rehabilitation of underground drains, sewers and water supply networks - Part 2: Thermoset composite materials (ISO 11300-2:2026)

Rohrleitungssysteme für die Sanierung von unterirdischen Entwässerungs-, Kanalisations- und Wasserversorgungsnetzen - Teil 2: Duroplastische Komposite (ISO 11300-2:2026)

Systèmes de canalisations pour la réhabilitation des branchements, des collecteurs d'assainissement et des réseaux d'alimentation en eau enterrés - Partie 2: Matériaux composites thermodurcissables (ISO 11300-2:2026)

Ta slovenski standard je istoveten z: EN ISO 11300-2:2026

ICS:

23.040.05	Cevovodi za zunanje sisteme za odpadno vodo in njihovi deli	Pipeline and its parts for external sewage systems
91.140.80	Drenažni sistemi	Drainage systems
93.025	Zunanji sistemi za prevajanje vode	External water conveyance systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

SIST EN ISO 11300-2:2026**en,fr,de**

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EUROPEAN STANDARD
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EN ISO 11300-2

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ICS 91.140.80; 93.025; 93.030; 23.040.05

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English Version

Piping systems for rehabilitation of underground drains,
sewers and water supply networks - Part 2: Thermoset
composite materials (ISO 11300-2:2026)

Systèmes de canalisations pour la réhabilitation des
branchements, des collecteurs d'assainissement et des
réseaux d'alimentation en eau enterrés - Partie 2:
Matériaux composites thermodurcissables (ISO 11300-
2:2026)

Rohrleitungssysteme für die Sanierung von
unterirdischen Entwässerungs-, Kanalisations- und
Wasserversorgungsnetzen - Teil 2: Duroplastische
Komposite (ISO 11300-2:2026)

This European Standard was approved by CEN on 9 October 2026.

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EN ISO 11300-2:2026 (E)

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European foreword

This document (EN ISO 11300-2:2026) has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" in collaboration with 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 2027, and conflicting national standards shall be withdrawn at the latest by April 2027.

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.

This document supersedes EN ISO 11297-4:2018, EN ISO 11296-1:2018, EN ISO 11296-4:2018, EN ISO 11297-1:2018, EN ISO 11298-1:2018, EN ISO 11298-4:2021 and EN ISO 11296-4:2018/A1:2021

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International Standard

ISO 11300-2

Piping systems for rehabilitation of underground drains, sewers and water supply networks —

Part 2: Thermoset composite materials

*Systèmes de canalisations pour la réhabilitation des
branchements, des collecteurs d'assainissement et des réseaux
d'alimentation en eau enterrés —*

Partie 2: Matériaux composites thermodurcissables

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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.

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).

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This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 8, *Rehabilitation of pipeline systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 11300-2, along with ISO 11300-1:2026, ISO 11300-3:2026 and ISO/DIS 11300-4, cancels and replaces ISO 11296-1:2018, ISO 11296-4:2018, ISO 11296-4:2018/Amd 1:2021, ISO 11297-1:2018, ISO 11297-4:2018, ISO 11298-1:2018 and ISO 11298-4:2021, which have been technically revised.

The main changes are as follows:

- for piping systems made from thermoset composite materials, this document replaces the related content, including requirements, of the documents listed above;
- definitions in [Clause 3](#) have been amended and new definitions have been added;
- a new material classification of thermoplastics membranes has been added (see [Table 1](#));
- the material classification of resin systems has been expanded (see [Table 2](#));
- additional requirements for declaration of short-term mechanical characteristics have been included (see [Table 5](#));
- the classification of lateral connections has been extended (new class D connection added in [Table 8](#) and [Figure 6](#));
- in [Annex B](#) all references to ISO 178 have been removed and replaced by references to ISO 14125 only;
- in [B.5.4](#), the procedure for determining apparent flexural modulus of curved samples has been amended and the formula for associated curvature correction factor modified to take account of large, geometry-changing deformations of the test pieces and friction at the supports. The previous curvature correction factor for stress has been deleted;

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- in [B.5.5](#), the correction for curvature of the apparent section bending modulus has been similarly updated.

A list of all parts in the ISO 11300 series can be found on the ISO website.

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Introduction

This document is a part of a series of International Standards concerning piping systems of various materials used for the rehabilitation of existing pipelines in a specified application area. System Standards for rehabilitation deal with the following applications:

- ISO 11300 series: *Piping systems for rehabilitation of underground drains, sewers and water supply networks*;
- ISO 11301 series: *Piping systems for rehabilitation of underground gas supply networks*.

The ISO 11300 and ISO 11301 series are subdivided into parts each covering a specific material or class of material of the piping system.

ISO 11300 series is subdivided into four parts:

- Part 1: Polyethylene (PE) material;
- Part 2: Thermoset composite materials (this document);
- Part 3: PVC-U material;
- Part 4: Thermoplastic composite materials.

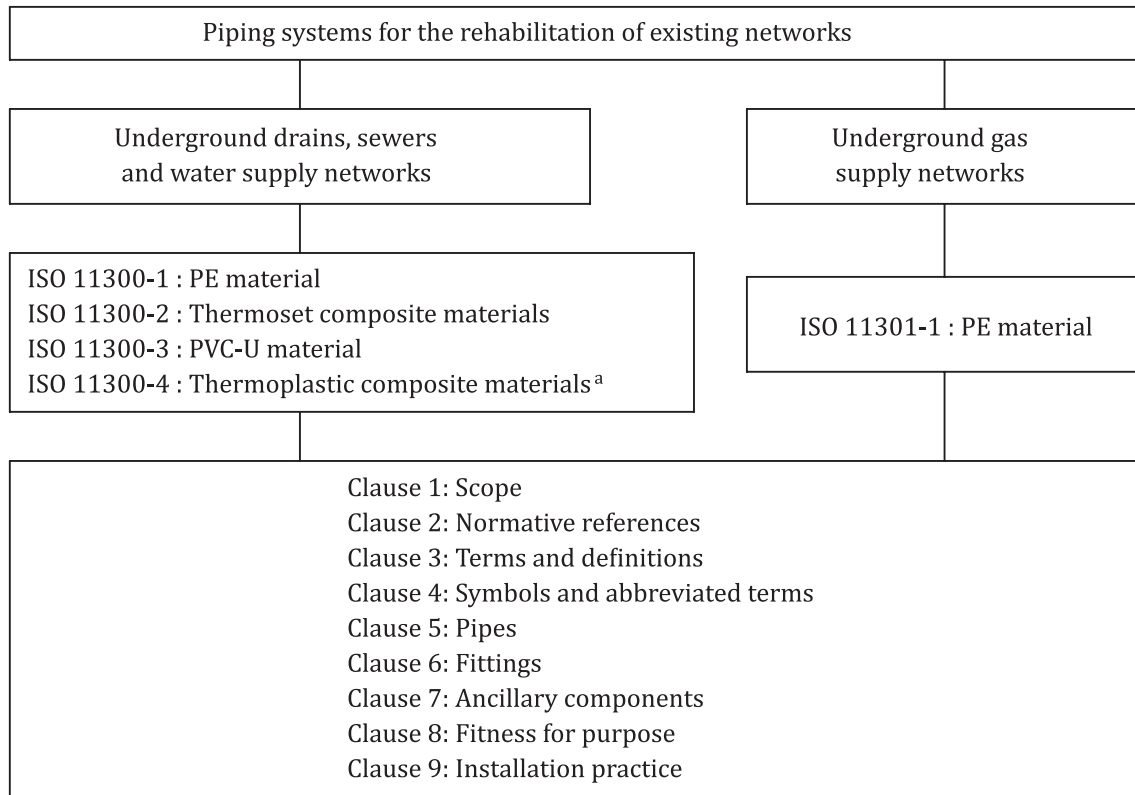
These documents cover various techniques for renovation and trenchless replacement. Furthermore, they are distinguished from those for conventionally installed plastics piping systems by the requirement to verify certain characteristics in the “as-installed condition”, after site processing. This is in addition to specifying requirements for piping system components “as manufactured”.

A consistent structure of clause headings has been adopted for all parts of the ISO 11300 series and the ISO 11301 series, in order to facilitate direct comparisons across rehabilitation technique families.

[Figure 1](#) shows the clause structure and the relationship between the ISO 11300 series and the ISO 11301 series.

For complementary information, see ISO 11295.

For assessment of conformity to the requirements of this document, see ISO/TS 23818-2.

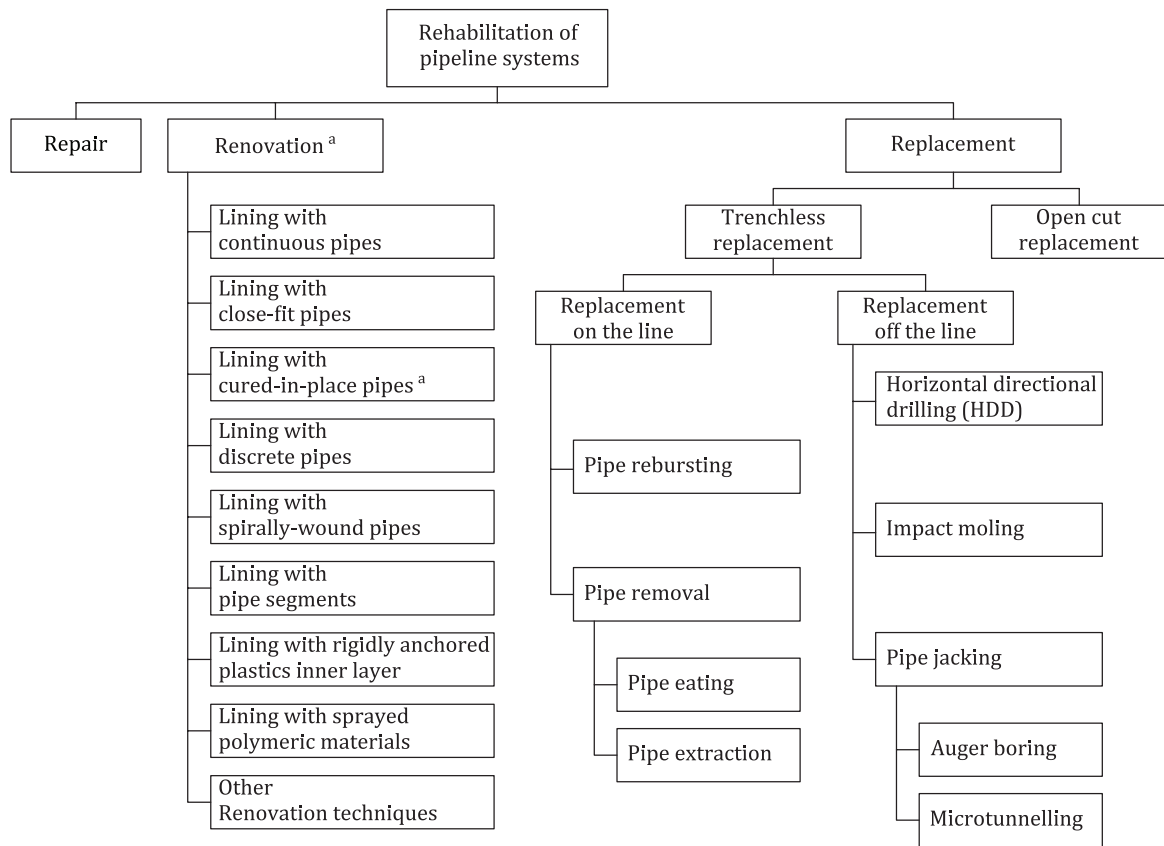
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In preparation.

Figure 1 — Clause structure of the ISO 11300 series and the ISO 11301 series

The various techniques for rehabilitation of underground drains and sewers and water supply networks, within the scope of pipeline rehabilitation techniques generally, are shown schematically in [Figure 2](#). For definitions of standardized renovation and replacement techniques shown in [Figure 2](#), but outside the scope of this document, see ISO 11295.

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^a This document is applicable, for piping systems made from thermoset composite materials.

Figure 2 — Technique families for renovation of underground drains, sewers and water supply networks using plastics pipes, within the scope of pipeline rehabilitation techniques