



# International Standard

**ISO 11300-1**

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

Part 1:

iTeh Standards

**Polyethylene (PE) material**

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

*Partie 1: Matériau polyéthylène (PE)*

[ISO 11300-1:2026](#)

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CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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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 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 11300-1, together with ISO 11300-2, ISO 11300-3, ISO/DIS 11300-4 (in preparation) and ISO 11301-1, cancels and replaces ISO 11296-1:2018, ISO 11296-2:2018, ISO 11296-3:2018, ISO 11297-1:2018, ISO 11297-2:2018, ISO 11297-3:2018, ISO 11298-1:2018, ISO 11298-2:2018, ISO 11298-3:2018, ISO 21225-1:2018 and ISO 21225-2:2018, which have been technically revised.

The main changes are as follows:

- for piping systems made from polyethylene (PE) material, this document replaces the related content, including requirements, of the documents listed above.

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

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).

## 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:

- 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 series and the ISO 11301 series are subdivided into parts covering a specific material per piping system.

The ISO 11300 series is subdivided in four parts:

- *Part 1: Polyethylene (PE) material (this document);*
- *Part 2: Thermoset composite materials;*
- *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”.

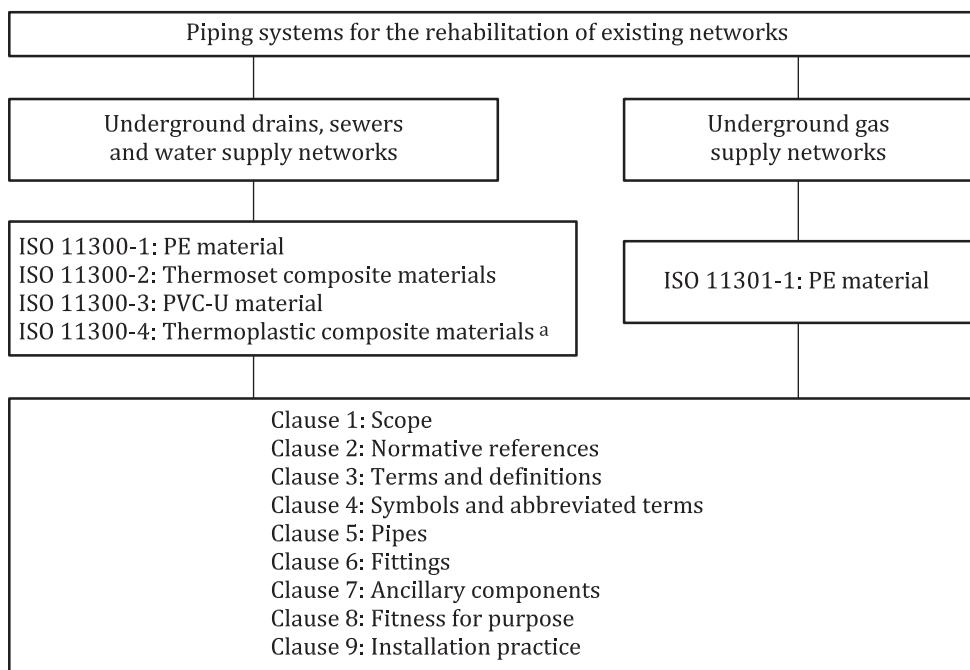
A consistent structure of clause headings has been adopted for all parts of the ISO 11300 series and the ISO 11301 series, in order to facilitate direct comparisons across renovation technique families.

[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 23818-1<sup>[3]</sup>.  
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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, sewers and water supply networks, within the scope of pipeline rehabilitation techniques generally, are shown schematically in [Figure 2](#). For definitions of standardized renovation techniques shown in [Figure 2](#), but outside the scope of this document, see ISO 11295.

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