
Cevni sistemi iz polimernih materialov za obnovo podzemnih omrežij za odvodnjavanje in kanalizacijo pod tlakom - 4. del: Oblaganje s cevmi, utrjenimi na mestu vgradnje (ISO 11297-4:2018)

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 4: Lining with cured-in-place pipes (ISO 11297-4:2018)

Kunststoff-Rohrleitungssysteme für die Renovierung von erdverlegten Abwasserdruckleitungen - Teil 4: Vor Ort härtendes Schlauch-Lining (ISO 11297-4:2018)

Systèmes de canalisations en plastique pour la rénovation des réseaux de branchements et de collecteurs d'assainissement enterrés sous pression - Partie 4: Tubage continu par tubes polymérisés sur place (ISO 11297-4:2018)

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91.140.80	Drenažni sistemi	Drainage systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

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European foreword

This document (EN ISO 11297-4:2018) 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of an identical text or by endorsement, at the latest by August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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**Plastics piping systems for renovation
of underground drainage and
sewerage networks under pressure —**

**Part 4:
Lining with cured-in-place pipes**

iTeh STANDARD PREVIEW
*Systemes de canalisations en plastique pour la rénovation des réseaux
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Partie 4: Tubage continu par tubes polymérisés sur place
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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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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

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*.

A list of all the parts in the ISO 11297 series can be found on the ISO website.

Introduction

This document is a part of a system standard for plastics piping systems of various materials used for renovation of existing pipelines in a specified application area. System standards for renovation dealing with the following applications are either available or in preparation:

- ISO 11296: *Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks*;
- ISO 11297: *Plastics piping systems for renovation of underground drainage and sewerage networks under pressure* (this document);
- ISO 11298: *Plastics piping systems for renovation of underground water supply networks*;
- ISO 11299: *Plastics piping systems for renovation of underground gas supply networks*;

These system standards are distinguished from system standards 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 verification of characteristics of plastics piping systems “as-manufactured”.

Each of the system standards comprises a

- *Part 1: General*

and all applicable renovation technique family related parts, which for drainage and sewerage networks under pressure include or potentially include the following:

- *Part 2: Lining with continuous pipes*;
- *Part 3: Lining with close-fit pipes*; [SIST EN ISO 11297-4:2018](https://standards.iteh.ai/catalog/standards/sist/5b8b0f39-5a26-48b0-8718-2018)
- *Part 4: Lining with cured-in-place pipes* (this document); <https://standards.iteh.ai/catalog/standards/sist/5b8b0f39-5a26-48b0-8718-2018>
- *Part 5: Lining with discrete pipes*;
- *Part 6: Lining with adhesive-backed hoses*.

The requirements for any given renovation technique family are specified in ISO 11297-1, applied in conjunction with the other relevant part. For example, both ISO 11297-1 and this document together specify the requirements relating to lining with cured-in place pipes. For complementary information, see ISO 11295. Not all technique families are pertinent to every area of application and this is reflected in the part numbers included in each system standard.

A consistent structure of clause headings has been adopted for all parts to facilitate direct comparisons across renovation technique families.

[Figure 1](#) shows the common part and clause structure and the relationship between the ISO 11297 series and system standards for other applications.