ICS 23.040.20, 23.040.45, 91.140.80, 93.030

SLOVENSKÁ TECHNICKÁ NORMA

Október 2018

STN	**Potrubné systémy z plastov na renováciu podzemných tlakových kanalizačných potrubí a stokových sietí Časť 1: Všeobecne (ISO 11297-1: 2018)**	**STN EN ISO 11297-1 75 6131**

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 1: General (ISO 11297-1:2018)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/18

Obsahuje: EN ISO 11297-1:2018, ISO 11297-1:2018

Oznámením tejto normy sa od 01.11.2018 ruší
STN EN ISO 11297-1 (75 6131) z novembra 2013

126956

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11297-1

April 2018

ICS 23.040.20; 23.040.45; 91.140.80; 93.030 Supersedes EN ISO 11297-1:2013

English Version

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 1: General (ISO 11297-1:2018)

Systèmes de canalisations en plastique pour la rénovation des réseaux de branchements et de collecteurs d'assainissement enterrés sous pression - Partie 1: Généralités (ISO 11297-1:2018)

Kunststoff-Rohrleitungssysteme für die Renovierung von erdverlegten Abwasserdruckleitungen - Teil 1: Allgemeines (ISO 11297-1:2018)

This European Standard was approved by CEN on 27 March 2018.

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Ref. No. EN ISO 11297-1:2018 E

EN ISO 11297-1:2018 (E)

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European foreword

This document (EN ISO 11297-1:2018) 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of an identical text or by endorsement, at the latest by October 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

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Endorsement notice

The text of ISO 11297-1:2018 has been approved by CEN as EN ISO 11297-1:2018 without any modification.

INTERNATIONAL STANDARD

ISO 11297-1

Second edition
2018-03

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

Part 1: General

Systèmes de canalisations en plastique pour la rénovation des réseaux de branchements et de collecteurs d'assainissement enterrés sous pression —

Partie 1: Généralités

Reference number
ISO 11297-1:2018(E)

ISO 11297-1:2018(E)

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Published in Switzerland

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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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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.

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*.

This second edition cancels and replaces the first edition (ISO 11297-1:2013), which has been technically revised. The main changes are in Clauses 2, 3.1, 3.2, 3.3, 4.2, and 8.9, and Figures 1 and 2.

A list of all 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 the renovation of existing pipelines in a specified application area. System Standards for renovation deal with the following applications:

— 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 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 plastics piping system components as manufactured.

Each of the System Standards comprises a:

— Part 1: *General* (this document)

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*;

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

— *Part 5: Lining with discrete pipes*;

— *Part 6: Lining with adhesive-backed hoses*.

The requirements for any given renovation technique family are specified in Part 1, applied in conjunction with the relevant other part. For example, this part of ISO 11297 and ISO 11297-3 specify the requirements relating to lining with close-fit 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 of ISO 11297, in order to facilitate direct comparisons across renovation technique families.

Figure 1 shows the common part and clause structure and the relationship between ISO 11297 and the System Standards for other application areas.

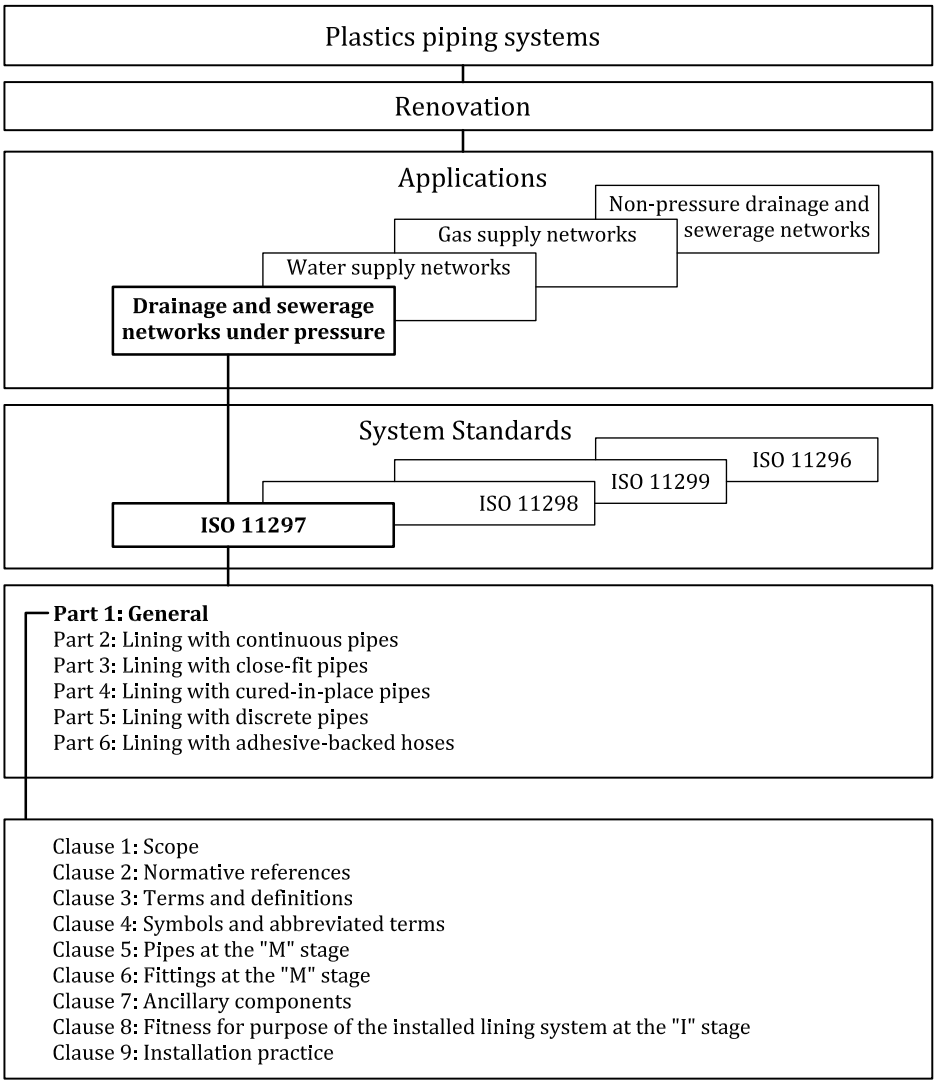

Figure 1 — Format of the renovation system standards

INTERNATIONAL STANDARD **ISO 11297-1:2018(E)**

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

Part 1: General

1 Scope

This document specifies the requirements and test methods for plastics piping systems intended to be used for the renovation of underground drainage and sewerage networks under pressure, including both hydraulically and pneumatically pressurized systems. It is applicable to pipes and fittings, as manufactured, as well as to the installed lining system. It is not applicable to the existing pipeline or any non-structural sprayed coatings or annular filler.

This document gives the general requirements common to all relevant renovation techniques.

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 4633, *Rubber seals — Joint rings for water supply, drainage and sewerage pipelines — Specification for materials*

EN 681-1, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Part 1: Vulcanized rubber*

EN 681-2, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Part 2: Thermoplastic elastomers*

EN 681-3, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Part 3: Cellular materials of vulcanized rubber*

EN 681-4, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications — Part 4: Cast polyurethane sealing elements*

