



NSAI
Standards

Irish Standard
I.S. EN ISO 11297-1:2013

Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 1: General (ISO 11297-1:2013)

I.S. EN ISO 11297-1:2013

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English Version

Plastics piping systems for renovation of underground drainage
and sewerage networks under pressure - Part 1: General (ISO
11297-1:2013)

Systèmes de canalisations en plastique pour la rénovation
des réseaux de branchements et de collecteurs
d'assainissement enterrés sous pression - Partie 1:
Généralités (ISO 11297-1:2013)

Kunststoff-Rohrleitungssysteme für die Renovierung von
erdverlegten Abwasserdruckleitungen - Teil 1: Allgemeines
(ISO 11297-1:2013)

This European Standard was approved by CEN on 18 April 2013.

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Foreword

This document (EN ISO 11297-1:2013) 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of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

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Endorsement notice

The text of ISO 11297-1:2013 has been approved by CEN as EN ISO 11297-1:2013 without any modification.

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INTERNATIONAL
STANDARD

ISO
11297-1

First edition
2013-05-01

**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
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 11297-1 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*.

ISO 11297 consists of the following parts, under the general title *Plastics piping systems for renovation of underground drainage and sewerage networks under pressure*:

- *Part 1: General*
- *Part 3: Lining with close-fit pipes*

Lining with continuous pipes is to form the subject of a future part 2; lining with cured-in-place pipes is to form the subject of a future part 4; lining with discrete pipes is to form the subject of a future part 5; and lining with adhesive-backed hoses is to form the subject of a future part 6.

Introduction

This part of ISO 11297 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:

- Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks;
- Plastics piping systems for renovation of underground drainage and sewerage networks under pressure;
- Plastics piping systems for renovation of underground water supply networks;
- 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

and all applicable renovation technique family-related parts from 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 Standards.

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.

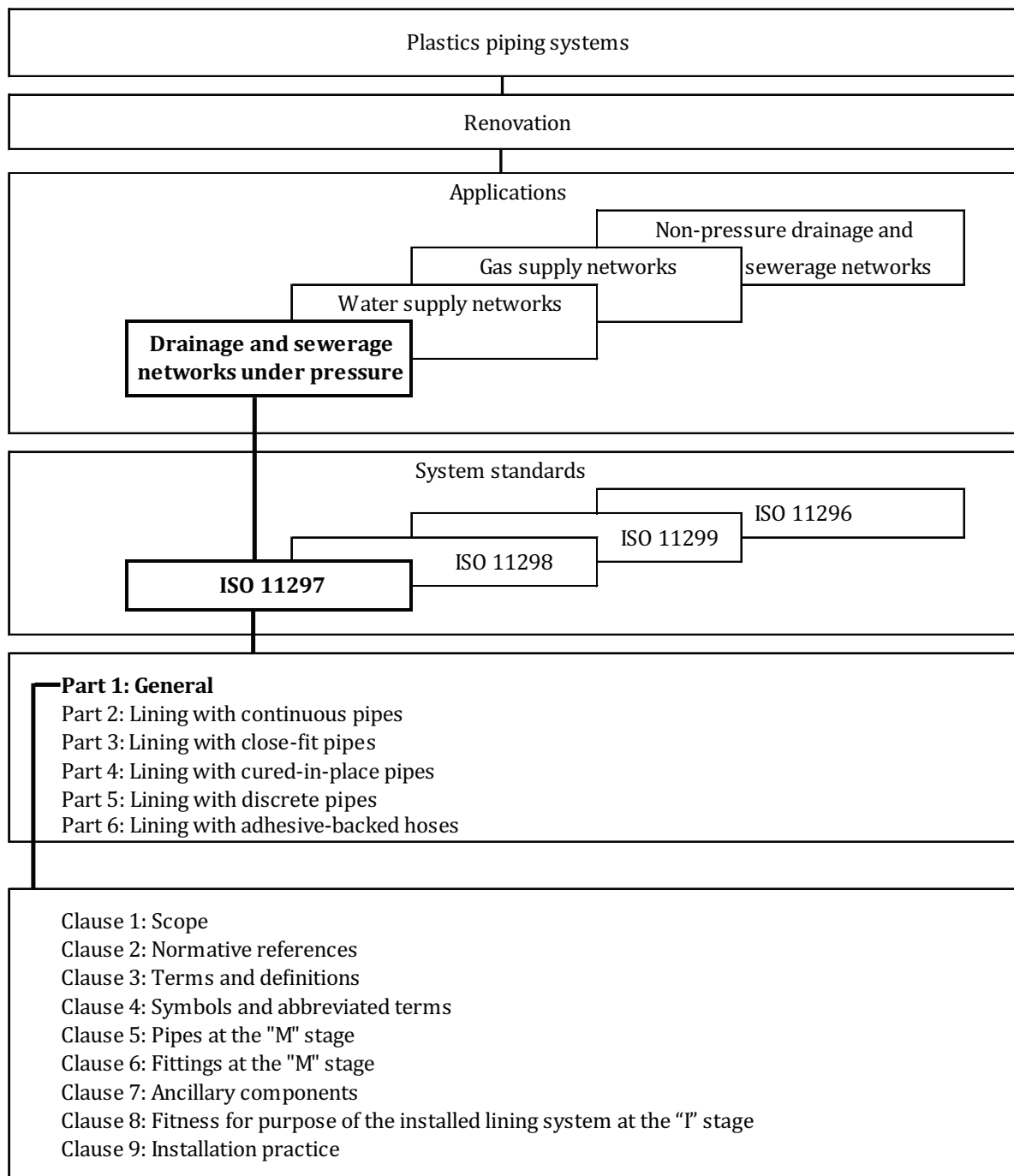


Figure 1 — Format of the renovation System Standards

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

Part 1: General

1 Scope

This part of ISO 11297 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. It is applicable to pipes and fittings, as manufactured, as well as to the installed lining system. It is not applicable to cover sprayed coatings, the existing pipeline or any annular filler.

This part of ISO 11297 gives the general requirements common to all relevant renovation techniques.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 General

3.1.1

pipeline system

interconnecting pipe network for the conveyance of fluids

3.1.2

rehabilitation

all measures for restoring or upgrading the performance of an existing pipeline system

3.1.3

renovation

work incorporating all or part of the original fabric of the pipeline, by means of which its current performance is improved

3.1.4

replacement

rehabilitation of an existing pipeline system by the installation of a new pipeline system, without incorporating the original fabric

3.1.5

maintenance

keeping an existing pipeline system operational without the installation of additional fabric

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