

**Plastics piping systems for renovation of underground  
water supply networks - Part 3: Lining with close-fit  
pipes (ISO 11298-3:2010)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 11298-3:2011 sisaldab Euroopa standardi EN ISO 11298-3:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.05.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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English Version

Plastics piping systems for renovation of underground water  
supply networks - Part 3: Lining with close-fit pipes (ISO 11298-  
3:2010)

Systèmes de canalisations en plastique pour la rénovation  
des réseaux enterrés d'alimentation en eau - Partie 3:  
Tubage par tuyau continu sans espace annulaire (ISO  
11298-3:2010)

Kunststoff-Rohrleitungssysteme für die Renovierung von  
erdverlegten Wasserversorgungsnetzen - Teil 3: Close-Fit-  
Lining (ISO 11298-3:2010)

This European Standard was approved by CEN on 8 April 2011.

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## Foreword

The text of ISO 11298-3:2010 has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11298-3:2011 by 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of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

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### Endorsement notice

The text of ISO 11298-3:2010 has been approved by CEN as a EN ISO 11298-3:2011 without any modification.

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## Introduction

This part of ISO 11298 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 water supply networks;
- Plastics piping systems for renovation of underground gas supply networks;
- Plastics piping systems for renovation of underground drainage and sewerage networks under pressure.

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 systems components as manufactured.

This System Standard comprises a:

- Part 1: General

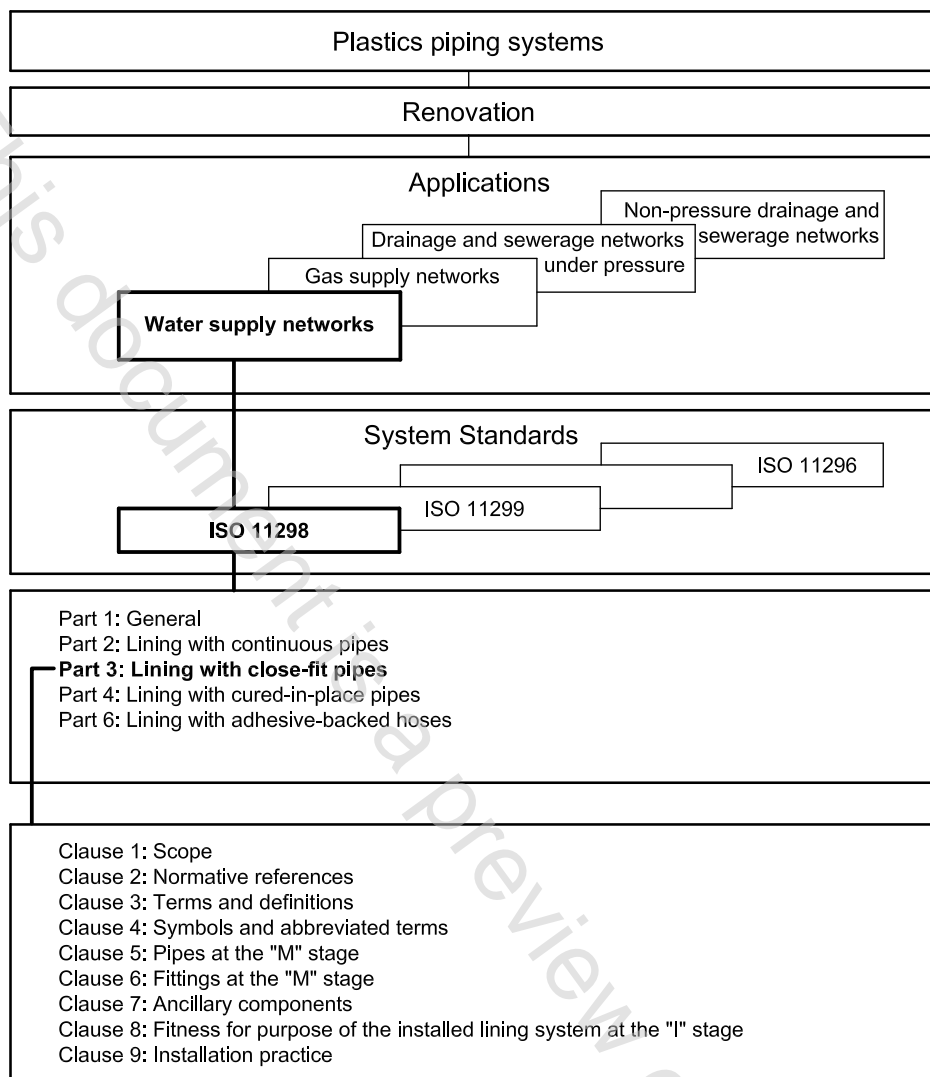
and all applicable renovation technique family-related parts from the following:

- Part 2: Lining with continuous pipes
- Part 3: Lining with close-fit pipes
- Part 4: Lining with cured-in-place pipes
- Part 6: Lining with adhesive-backed hoses

The requirements for any given renovation technique family are given in part 1, applied in conjunction with the relevant other part. For example, ISO 11298-1 and this part of ISO 11298 together 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 11298, in order to facilitate direct comparisons across renovation technique families.

Figure 1 shows the common part and clause structure and the relationship between ISO 11298 and the System Standards for other application areas.



**Figure 1 — Format of the renovation System Standards**

# Plastics piping systems for renovation of underground water supply networks —

## Part 3: Lining with close-fit pipes

### 1 Scope

This part of ISO 11298, in conjunction with ISO 11298-1, specifies requirements and test methods for close-fit lining systems intended to be used for the renovation of water supply networks, which transport water intended for human consumption, including raw water intake pipelines.

It is applicable to polyethylene (PE) pipe for both independent and interactive pressure pipe liners as well as associated fittings and joints for the construction of the lining system.

### 2 Normative references

The following referenced documents are indispensable for the application 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 3126, *Plastics piping systems — Plastics components — Determination of dimensions*

ISO 4427-1:2007, *Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 1: General*

ISO 4427-2, *Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 2: Pipes*

ISO 4427-3, *Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 3: Fittings*

ISO 4427-5:2007, *Plastics piping systems — Polyethylene (PE) pipes and fittings for water supply — Part 5: Fitness for purpose of the system*

ISO 11298-1:2009, *Plastics piping systems for renovation of underground water supply networks — Part 1: General*

ISO 12176-1, *Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 1: Butt fusion*

ISO 12176-2, *Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 2: Electrofusion*

EN 12201-4, *Plastics piping systems for water supply — Polyethylene (PE) — Part 4: Valves*