INTERNATIONAL STANDARD

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Plastics piping systems for renovation of underground water supply networks —

Part 2: **Lining with continuous pipes**

Systémes de canalisation en plastiques pour la rénovation des réseaux enterrés d'alimentation en eau —

Partie 2: Tubage par tuyau continu avec espace annulaire

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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*.

A list of all parts in the ISO 11298 series can be found on the ISO website.

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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 11927, Plastics piping systems for renovation of underground drainage and sewerage networks under pressure;
- ISO 11298, Plastics piping systems for renovation of underground water supply networks (this application);
- 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,

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

- Part 2: Lining with continuous pipes (this document);
- 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;
 - Part 10: Lining with sprayed polymeric materials;
 - Part 11: Inserted hoses.

The requirements for any given renovation technique family are given in Part 1, applied in conjunction with the relevant other part. For example, this document and ISO 11298-1 together specify the requirements relating to lining with continuous 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 ISO 11298 (all parts), 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 (all parts) and the system standards for other application areas.

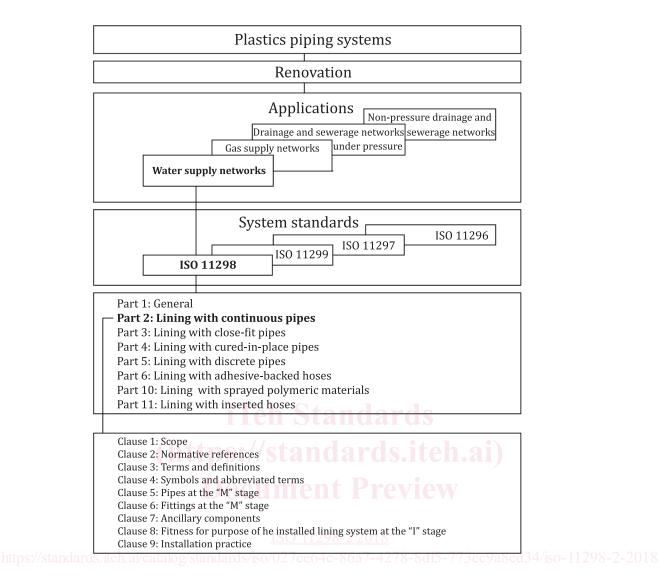


Figure 1 — Format of the renovation system standards