



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 14409-1:2004**

ICS 23.040.01  
93.025

**PLASTICS PIPING SYSTEMS FOR  
RENOVATION OF UNDERGROUND WATER  
SUPPLY NETWORKS - PART 1: GENERAL**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

**Sales**

<http://www.standards.ie>

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland and comes into  
effect on:  
May 25, 2005*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2004

**Price Code I**

Údarás um Chaighdeáin Náisiúnta na hÉireann



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 14409-1**

September 2004

ICS 23.040.01; 93.025

English version

**Plastics piping systems for renovation of underground water  
supply networks - Part 1: General**

Systèmes de canalisations plastiques pour la rénovation  
des réseaux enterrés pour l'alimentation en eau - Partie 1 :  
Généralités

Kunststoff-Rohrleitungssysteme für die Renovierung  
erdverlegter Wasserversorgungsnetze - Teil 1: Allgemeines

This European Standard was approved by CEN on 29 July 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## EN 14409-1:2004 (E)

### Contents

	page
Contents .....	2
Foreword.....	3
Introduction .....	5
1 Scope.....	6
2 Normative references .....	6
3 Terms, definitions, symbols and abbreviations .....	6
4 Pipes at the "M" stage .....	13
5 Fittings at the "M" stage.....	14
6 Valves .....	15
7 Fitness for purpose of the system for pipes and fittings at the "I" stage.....	15
8 Installation practice .....	16
Annex A (informative) Recommended scheme for assessment of conformity .....	20
Bibliography .....	23

## Foreword

This document (EN 14409-1:2004) has been prepared 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 March 2005, and conflicting national standards shall be withdrawn at the latest by March 2005.

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:

- Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks;
- **Plastics piping systems for renovation of underground water supply networks (this application);**
- Plastics piping systems for renovation of underground gas supply networks;
- Plastics piping systems for renovation of underground drainage and sewerage networks under pressure;
- Plastics piping systems for renovation of industrial pipelines.

These System Standards are distinguished from those for conventionally installed plastics piping systems by setting requirements for certain characteristics in the as-installed condition, after site processing. This is in addition to specifying requirements for 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 list:

- Part 2<sup>1)</sup>: Lining with continuous pipes
- Part 3: Lining with close-fit pipes
- Part 4<sup>1)</sup>: Lining with cured-in-place pipes
- Part 6<sup>1)</sup>: Lining with inserted hoses

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 EN 14409 and the System Standards for other application areas.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard : Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

---

<sup>1)</sup> At the date of publication of this standard, the standardization work on prEN 14409-2 and prEN 14409-4 and prEN 14409-6 has not started.

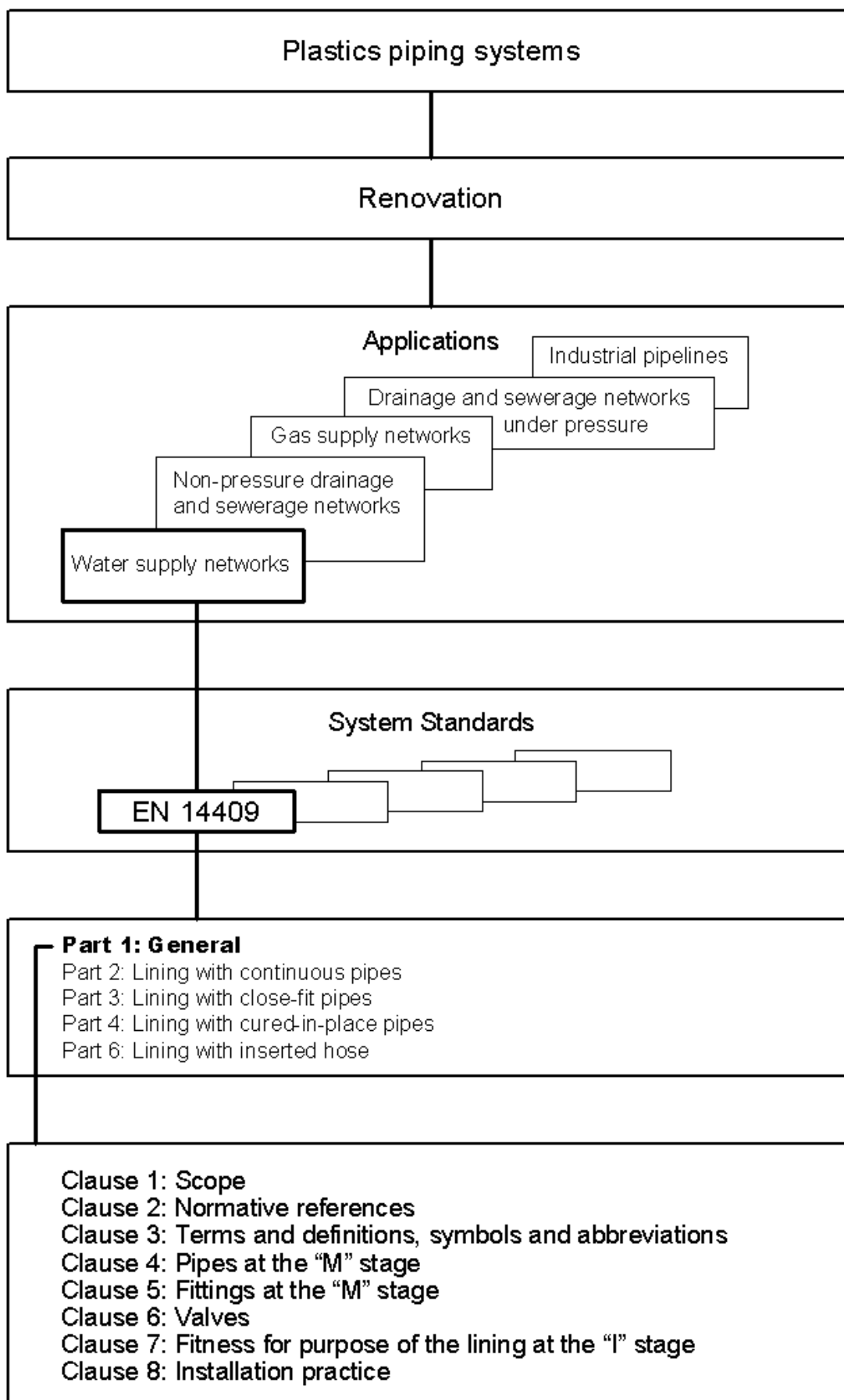


Figure 1 — Format of the renovation system standards

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-