



National Standards Authority of Ireland

STANDARD

I.S. EN 14457:2004

ICS 93.030

**GENERAL REQUIREMENTS FOR
COMPONENTS SPECIFICALLY DESIGNED
FOR USE IN TRENCHLESS CONSTRUCTION
OF DRAINS AND SEWERS**

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EUROPEAN STANDARD

EN 14457

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EUROPÄISCHE NORM

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English version

General requirements for components specifically designed for use in trenchless construction of drains and sewers

Prescriptions générales pour composants utilisés dans la
construction des réseaux d'évacuation et d'assainissement
sans tranchée

Allgemeine Anforderungen an Bauteile, die bei
grabenlosem Einbau von Abwasserleitungen und -kanälen
verwendet werden

This European Standard was approved by CEN on 23 April 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.



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Foreword

This document (EN 14457:2004) has been prepared by Technical Committee CEN/TC 165 “Wastewater engineering”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

Annex A is informative.

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.

EN 14457:2004 (E)

1 Scope

This European Standard specifies general requirements for pipes and their joints intended for use in drains and sewers which are installed using trenchless construction methods "pipe jacking", "microtunnelling" and "pilot jacking" as defined in EN 12889 as gravity systems, according to EN 476 where any pressure to occur is a maximum of 40 kPa or operated under pressure according to EN 773 where pressure can be more than 40 kPa.

This European Standard provides the general basis for the preparation or revision of product standards. It is not applicable for the evaluation of products and construction techniques.

It is applicable as a reference for drawing up a product specification, if there is no product standard available.

This European Standard applies to components to be used in domestic waste water, rainwater and surface water and other waste waters (e.g. industrial waste water) that will not damage the components.

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.

EN 773:1999, *General requirements for components used in hydraulically pressurized discharge pipes, drains and sewers.*

3 Terms and definitions, symbols and abbreviations

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

3.1

external diameter

OD

mean external diameter of the pipe barrel at any cross section

3.2

gravity system

system where flow is caused by the force of gravity and where the pipe usually operates partially full

3.3

hydraulically pressurized system

system where flow is caused by hydraulic pressure and where the pipe usually operates full

3.4

invert

lowest point of the internal surface of the barrel of a pipe or channel at any cross section

[EN 476:1997]

3.5

internal diameter

ID

mean internal diameter of the pipe barrel at any cross section

[EN 476:1997]

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