

**Classification and characteristics of techniques for  
renovation and repair of drains and sewers**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15885:2010 sisaldab Euroopa standardi EN 15885:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.12.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.12.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 15885:2010 consists of the English text of the European standard EN 15885:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.12.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 01.12.2010.

The standard is available from Estonian standardisation organisation.

ICS 93.030

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ICS 93.030

English Version

## Classification and characteristics of techniques for renovation and repair of drains and sewers

Classification et caractéristiques des techniques de rénovation et de réparation des réseaux d'évacuation et d'assainissement

Klassifizierung und Eigenschaften von Techniken für die Renovierung und Reparatur von Abwasserkanälen und -leitungen

This European Standard was approved by CEN on 30 October 2010.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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Management Centre: Avenue Marnix 17, B-1000 Brussels

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## Foreword

This document (EN 15885:2010) has been prepared by Technical Committee CEN/TC 165 "Waste water 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 June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

It provides an overview of systems used for renovation and repair of drains and sewers, regardless of the material used. In respect of sewer renovation techniques using plastics materials only, it reproduces definitions and other information (but no requirements) contained in EN ISO 11295. Due to their continuous development the most up-to-date information on these particular techniques may be contained in either this document or EN ISO 11295, whichever is the latest dated edition. Regarding general requirements for drain and sewer systems and existing standards and draft standards on the subject of rehabilitation of drain and sewer systems, information in summary form is available in CEN/TR 15128.

For management and control of rehabilitation activities in drains and sewers a European Standard is in preparation in CEN/TC 165/WG 22.

This document refers to existing EN product standards to the extent available for the techniques and materials covered.

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

## 1 Scope

This European Standard specifies a system for the classification of techniques for renovation and repair of drains and sewers outside buildings, operated under gravity or pressure, including pipes, connections and manholes. It defines and describes families of techniques and their different generic methods and materials used.

This European Standard does not describe specific products.

For each technique family it lists relevant existing standards, materials and applications and outlines characteristics including installation aspects, structural and hydraulic capabilities and site impact.

Necessary work on the existing pipe prior to renovation and repair is outside the scope of this European Standard.

This European Standard provides information needed to determine viable options for identification of the optimal technique with regard to a given set of renovation and repair objectives.

NOTE It is the responsibility of the designer to choose and design the renovation and repair systems.

It does not specify the calculation methods to determine, for each viable technique, the required amount of lining material needed to secure the desired performance of the renovated pipeline.

## 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 752:2008, *Drain and sewer systems outside buildings*

## 3 Terms and definitions

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

### 3.1

#### **rehabilitation**

measures for restoring or upgrading the performance of existing drain and sewer systems

[EN 752:2008, 3.50]

### 3.2

#### **renovation**

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

[EN 752:2008, 3.52]

### 3.3

#### **repair**

rectification of local damage

[EN 752:2008, 3.53]