



BSI Standards Publication

Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks

Part 2: Lining with continuous pipes

National foreword

This British Standard is the UK implementation of EN ISO 11296-2:2018. It is identical to ISO 11296-2:2018. It supersedes BS EN 13566-2:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/88/3, Rehabilitation of pipeline systems using plastics piping materials and components.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018
Published by BSI Standards Limited 2018

ISBN 978 0 580 88598 3

ICS 91.140.80; 93.030; 23.040.20; 23.040.45

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2018.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

Plastics piping systems for renovation of underground
non-pressure drainage and sewerage networks - Part 2:
Lining with continuous pipes (ISO 11296-2:2018)

Systèmes de canalisations en plastique pour
la rénovation des réseaux de branchements et
de collecteurs d'assainissement enterrés sans
pression - Partie 2: Tubage par tuyau continu
avec espace annulaire (ISO 11296-2:2018)

Kunststoff-Rohrleitungssysteme zur
Renovierung von erdverlegten drucklosen
Entwässerungsnetzen (Freispigelleitungen) -
Teil 2: Rohrstrang-Lining (ISO 11296-2:2018)

This European Standard was approved by CEN on 10 September 2017.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 11296-2:2018) has been prepared by Technical Committee ISO/TC 138 “Rehabilitation of pipeline systems” in collaboration with 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 August 2018, and conflicting national standards shall be withdrawn at the latest by August 2018.

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

This document supersedes [EN 13566-2:2005](#).

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 11296-2:2018 has been approved by CEN as EN ISO 11296-2:2018 without any modification.

Contents

Page

Foreword	1
Introduction	2
1 Scope	3
2 Normative references	4
3 Terms and definitions	4
4 Symbols and abbreviated terms	5
4.1 Symbols	5
4.2 Abbreviated terms	5
5 Pipes at the “M” stage	5
5.1 Material	5
5.2 General characteristics	5
5.3 Material characteristics	5
5.4 Geometrical characteristics	5
5.5 Mechanical characteristics	5
5.6 Physical characteristics	5
5.7 Jointing	5
5.8 Marking	6
5.9 Regional requirements for pipes	6
6 Fittings at the “M” stage	6
6.1 Requirements	6
6.2 Marking	6
6.3 Regional requirements for fittings	6
7 Ancillary components	6
8 Fitness for purpose of the system for pipes and fittings at the “I” stage	6
9 Installation practice	6
9.1 Preparatory work	6
9.2 Storage, handling and transport	6
9.3 Equipment	7
9.3.1 Butt fusion equipment and de-beading equipment	7
9.3.2 Pipe rollers	7
9.3.3 Winching and rod-pulling equipment	7
9.3.4 Pipe entry guides	8
9.3.5 Electrofusion equipment	8
9.3.6 Inspection equipment	8
9.3.7 Lifting equipment	8
9.4 Installation	8
9.5 Process-related inspection and testing	9
9.6 Lining termination	9
9.7 Reconnection to the existing pipeline system	9
9.8 Final inspection and testing	9
9.9 Documentation	9
Annex A (normative) Layered pipes	10
Bibliography	11

