

Common requirements for concrete pressure pipes including joints and fittings

The European Standard EN 639:1994 has the status of a
British Standard

ICS 23.040.50

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/505, Water supply, upon which the following bodies were represented:

- Association of Consulting Engineers
- Association of Manufacturers of Domestic Unvented Supply Systems Equipment (MODUSSE)
- British Bathroom Council
- British Foundry Association
- British Non-Ferrous Metals Federation
- British Plastics Federation
- British Plumbing Fittings Manufacturers' Association
- Department of the Environment
- Department of the Environment (Drinking Water Inspectorate)
- Fibre Cement Manufacturers' Association Limited
- Institute of Plumbing
- Institution of Water and Environmental Management
- Local Authority Organizations
- Scottish Association of Directors of Water and Sewerage Services
- Water Companies Association
- Water Research Centre
- Water Services Association of England and Wales

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Association of Metropolitan Authorities
- British Precast Concrete Federation Ltd.
- Concrete Pipe Association
- Concrete Society
- Department of Transport
- Federation of Civil Engineering Contractors
- Institution of Civil Engineers
- Institution of Highways and Transportation

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National foreword

This British Standard has been prepared by Technical Committee B/504 and is the English language version of EN 639:1994 *Common requirements for concrete pressure pipes including joints and fittings*, published by the European Committee for Standardization (CEN). Together with BS EN 642 it supersedes BS 4625, which is withdrawn.

EN 639 was published as a result of international discussion in which the UK took an active part.

Cross-references

Publication referred to	Corresponding British Standard
EN 29001:1987	BS EN ISO 9001:1994 <i>Quality systems — Model for quality assurance in design, development, production, installation and servicing</i> (Identical)
EN 29002:1987	BS EN ISO 9002:1994 <i>Quality systems — Model for quality assurance in production, installation and servicing</i> (Identical)
EN 29003:1987	BS EN ISO 9003:1994 <i>Quality systems — Model for quality assurance in final inspection and test</i> (Identical)

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English version

Common requirements for concrete pressure pipes including joints and fittings

Prescriptions communes pour tuyaux pression
en béton y compris joints et pièces spéciales

Allgemeine Anforderungen für Druckrohre aus
Beton einschließlich Rohrverbindungen und
Formstücken

This European Standard was approved by CEN on 1994-10-26. 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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard for concrete pipes is a standard which was prepared by WG 5, Concrete pipes, of the Technical Committee CEN/TC 164, Water supply, the Secretariat of which is held by AFNOR.

During preparation of this standard the provisional results already available of CEN/TC 164/WG 1, General requirements for external systems and components, and of CEN/TC 164/165/JWG 1, Structural design, were considered.

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 April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

The product¹⁾ in permanent or temporary contact with water, intended for human consumption, shall not adversely affect the quality of the drinking water and shall not contravene the CE Directives and EFTA Regulations on the quality of drinking water.

This standard is not intended to be used alone. It shall be used as a combined document with one of the following as appropriate:

EN 640, *Reinforced concrete pressure pipes and distributed reinforcement concrete pressure pipes (non cylinder type) including joints and fittings.*

EN 641, *Reinforced concrete pressure pipe, cylinder type, including joints and fittings.*

EN 642, *Prestressed concrete pressure pipes, non cylinder and cylinder type, including joints, fittings and specific requirements for prestressing steel for pipes.*

or any future additional product standard referring to this standard.

When the relevant EN dealing with general requirements, such as *General requirements for external systems and components* (CEN/TC 164/WG 1) *Materials in contact with water* (CEN/TC 164/WG 3) and *Structural design* (CEN/TC 164/165/JWG 1) are adopted, the present standard shall be revised, where appropriate, in order to ensure that these requirements comply with the relevant EN's.

To the present standard, are attached:

- Annex A (informative): Notation of main parameters;
- Annex B (informative): Span pipe calculations.

1 Scope

This European Standard specifies common requirements for the following components: concrete pressure pipes, joints and fittings including jacking pipes. These components are intended to be used in water systems which carry water for human consumption, industrial purposes, irrigation or waste water.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

EN 29001, *Quality systems — Model for quality assurance in design / development, production, installation and servicing.*

EN 29002, *Quality systems — Model for quality assurance in production and installation.*

EN 29003, *Quality systems — Model for quality assurance in final inspection and test.*

3 Definitions

For the purposes of this standard, the following definitions apply.

adjustable joint

joint which permits significant angular deflection at the time of installation but not thereafter

contractor

the person, company or corporation executing the contract or agreement for installation and commissioning of the pipeline

¹⁾ Shall be considered as such any product used for the conveyance and distribution of water intended for human consumption.