

Metallic industrial piping —

Part 1: General

ICS 23.040.01

National foreword

This British Standard is the UK implementation of EN 13480-1:2002+A2:2008. It supersedes BS EN 13480-1:2002 which is withdrawn.

The start and finish of text introduced or altered by CEN amendment is indicated in the text by tags A1 A1. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

Compliance with this standard will confer a presumption of conformity with the essential requirements covered by the standard in respect of the Pressure Equipment Directive.

The UK participation in its preparation was entrusted to Technical Committee PVE/10, Industrial piping systems.

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.

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

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English Version

Metallic industrial piping - Part 1: General

Tuyauteries industrielles métalliques - Partie 1: Généralités

Metallische industrielle Rohrleitungen - Teil 1: Allgemeines

This amendment A2 modifies the European Standard EN 13480-1:2002; it was approved by CEN on 7 February 2008.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This amendment 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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 13480-1:2002) has been prepared by Technical Committee CEN/TC 267 "Industrial piping and pipelines", the secretariat of which is held by AFNOR.

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 November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative annex ZA, which is an integral part of this document.

This European Standard EN 13480 for metallic industrial piping consists of seven interdependent and not dissociable Parts which are:

- *Part 1: General;*
- *Part 2: Materials;*
- *Part 3: Design and calculation;*
- *Part 4: Fabrication and installation;*
- *Part 5: Inspection and testing;*
- *Part 6: Additional requirements for buried piping;*

CEN/TR 13480-7, *Guidance on the use of conformity assessment procedures*

Ⓐ — *Part 8: Additional requirements for aluminium and aluminium alloy piping.* Ⓐ

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

Ⓐ₁ This European Standard will be maintained by a Maintenance working group whose scope of working is limited to corrections and interpretations related to EN 13480. The contact to submit queries can be found at <http://comelec.afnor.fr/cen/en13480>. Detailed scope of working for this Maintenance working group is given in informative Annex A. Ⓐ₁

Foreword to amendment A1

This document (EN 13480-1:2002/A1:2005) has been prepared by Technical Committee CEN/TC 267 "Industrial piping and pipelines", the secretariat of which is held by AFNOR.

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1 Scope

This European Standard specifies the requirements for industrial piping systems and supports, including safety systems, made of metallic materials (but initially restricted to steel) with a view to ensure safe operation.

This European Standard is applicable to metallic piping above ground, ducted or buried, irrespective of pressure.

This European Standard is not applicable to:

- Pipelines and their accessories;
- Stream waterways such as penstocks, pressure tunnels, pressure shaft for hydro-electric-installations and their related specific accessories;
- Piping for vehicles covered by the EEC type approval procedures as laid down in Directives 70/156/EEC [1], 74/150/EEC [2] and 92/61/EEC [3];
- Items specifically designed for nuclear use, failure of which may cause an emission of radioactivity;
- Well-control equipment used in the petroleum, gas or geothermal exploration and extraction industry and in underground storage which is intended to contain and/or control well pressure, including the piping;
- Piping of blast furnaces including the furnace cooling, hot blast recuperators, dust extractors and blast furnace exhaust gas scrubbers and direct reducing cupolas including the furnace cooling, gas converters and vacuum furnaces and pans for melting, re-melting de-gassing and casting of steel and non ferrous metals;
- Enclosures for high voltage electrical equipment such as switchgear, control gear and transformers;
- Pressurized pipes for the containment of transmission systems such as for electrical power and telephone cables;
- Permanently fixed piping for ships, rockets, aircraft and mobile offshore units;
- Internal piping in medical devices as defined in the Directive 93/142/EEC [4] concerning medical devices;
- Internal piping of boilers and piping integral to pressure vessels.

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 (including amendments).

EN 764-2, *Pressure equipment - Part 2 : Quantities, symbols and units.*

EN 764-3, *Pressure equipment - Part 3 : Definitions and parties involved.*

EN 13480-2, *Metallic industrial piping - Part 2: Materials.*

EN 13480-3, *Metallic industrial piping - Part 3: Design and calculation.*

EN 13480-4, *Metallic industrial piping - Part 4: Fabrication and installation.*

EN 13480-5:2002, *Metallic industrial piping - Part 5: Inspection and testing.*