

Multilayer piping systems for hot and cold water installations inside buildings

Part 7: Guidance for the assessment of conformity (ISO/TS 21003-7:2008)

ICS 23.040.20; 91.140.60

National foreword

This Draft for Development is the UK implementation of CEN ISO/TS 21003-7:2008+A1:2010. It is identical to ISO/TS 21003-7:2008, incorporating amendment 1:2010. It supersedes DD CEN ISO/TS 21003-7:2008 which is withdrawn.

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

The UK Committee would like to emphasise that compliance with this Draft for Development does not necessarily mean that products are fit for nonpotable hot water pipes.

The requirements contained in this standard are not necessarily indicative of all the performance requirements, or the suitability of pipework for the service conditions likely to be encountered in a particular pipework application in the UK. In particular:

(i) The normal maximum operating cold water supply pressure in the UK is 12.5 bar, a pressure that some application classes of pipe in this Draft for Development do not meet.

(ii) This Draft for Development does not specifically describe push-fit joints that are the predominant jointing method in the UK but defines mechanical fittings in general.

(iii) There is a disparity between the malfunction temperature (100 °C) quoted in Table 1 of Part 1 of this Draft for Development and the malfunction temperatures applicable to boilers (110 °C) conforming to BS EN 297:1994, BS EN 483:2000 and BS EN 625:1996. Current UK practice can be found in BS 7291-1 which should be consulted when applying this Draft for Development. Pipe systems not conforming to BS 7291-1 could be subjected to temperatures in service for which they have not been tested.

(iv) The unique and traditional practice in the UK is to use products certified to BS 7291 Class S for all applications, as defined in BS 7291-1. This is recognized in the National Annex to BS EN 12828 that requires the use of systems suitable for the maximum temperatures and pressures for their intended application specified in BS 7291-1.

This Draft for Development does not replace BS 7291 Parts 1, 2 and 3 (Class S) which contain detailed requirements for performance and contact with drinking water for pipes, fittings and joints manufactured from Polybutylene and PEX materials.

This publication is not to be regarded as a British Standard.

This Draft for Development was published under the authority of the Standards Policy and Strategy Committee on 31 March 2008

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Amendments/corrigenda issued since publication

Date	Comments
31 October 2010	Implementation of ISO amendment 1:2010 with CEN endorsement A1:2010

It is being issued in the Draft for Development series of publications and is of a provisional nature. It should be applied on this provisional basis, so that information and experience of its practical application can be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the international organization responsible for its conversion to an international standard. A review of this publication will be initiated not later than three years after its publication by the international organization so that a decision can be taken on its status. Notification of the start of the review period will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into an international Standard, to extend the life of the Technical Specification or to withdraw it. Comments should be sent to the Secretary of the responsible BSI Technical Committee at British Standards House, 389 Chiswick High Road, London W4 4AL.

The UK participation in its preparation was entrusted to Technical Committee PRI/88/2, Plastics piping for pressure applications.

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.

English Version

**Multilayer piping systems for hot and cold water installations
inside buildings - Part 7: Guidance for the assessment of
conformity (ISO/TS 21003-7:2008)**

Systèmes de canalisations multicouches pour installations
d'eau chaude et froide à l'intérieur des bâtiments - Partie 7:
Guide pour l'évaluation de la conformité (ISO/TS 21003-
7:2008)

Mehrschichtverbund-Rohrleitungssysteme für die Warm-
und Kaltwasserinstallation innerhalb von Gebäuden - Teil 7:
Empfehlungen für die Beurteilung der Konformität (ISO/TS
21003-7:2008)

This Technical Specification (CEN/TS) was approved by CEN on 25 June 2008 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (CEN ISO/TS 21003-7:2008) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids".

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, 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.

Foreword to amendment A1

This document (CEN ISO/TS 21003-7:2008/A1:2010) has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" in collaboration with Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

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Endorsement notice

The text of ISO/TS 21003-7:2008/Amd 1:2010 has been approved by CEN as a CEN ISO/TS 21003-7:2008/A1:2010 without any modification.

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Introduction

ISO 21003 specifies the requirements for multilayer piping systems. The piping system is intended to be used for hot and cold water installations inside buildings.

In respect of potentially adverse effects on the quality of water intended for human consumption, caused by the products covered by ISO 21003:

- no information is provided as to whether the product may be used without restriction in any of the member states of the EU or EFTA;
- it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of these products remain in force.

Requirements and test methods for material and components are specified in ISO 21003-2 and ISO 21003-3. Characteristics relating to fitness for purpose (mainly for joints) are covered in ISO 21003-5.

This Technical Specification gives guidance for the assessment of conformity of materials, components, joints and assemblies and it is intended to be used by certification bodies, inspection bodies, testing laboratories and manufacturers.