BS EN ISO 15876-5:2017+A1:2020
Incorporating corrigendum June 2024

BSI Standards Publication

Plastics piping systems for hot and cold water installations — Polybutene (PB)

Part 5: Fitness for purpose of the system

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Full document details: BS EN ISO 15876-5:2017+A1:2020

National foreword

This British Standard is the UK implementation of EN ISO 15876-5:2017+A1:2020. It is identical to ISO 15876-5:2017, incorporating amendment 1:2020. It supersedes BS EN ISO 15876-5:2017, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by ▌A1⟩ ⟨A1▌.

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 committee manager.

As the scope of this standard does not cover polybutene (PB) piping systems for installations having service conditions in excess of those in Table 1 of BS EN ISO 15876-1:2017, the UK committee advises users to consult BS 7291-1:2010+A1:2023 when applying this standard.

BS 7291-1:2010+A1:2023 gives the Class "S" service conditions for sealed central heating systems and indirect hot water primary circuits in which the maximum system service temperature is 105 °C and the system malfunction temperature is 114 °C. As both of these temperatures are significantly in excess of those specified in Table 1 of BS EN ISO 15876-1:2017, and sealed central heating systems and indirect hot water primary circuits are therefore not covered by it, the UK committee advises that PB piping systems conforming to the requirements of this standard should also be subjected to the temperatures given in Table 1 of BS 7291-1:2010+A1:2023.

The UK committee also advises users that:

a) The normal maximum operating cold water supply pressure in the UK is 12.5 bar (1 bar = 100 kPa), which some categories of piping systems in the BS EN ISO 15876 series of standards do not meet.

b) There is a disparity between the malfunction temperature quoted in Table 1 of BS EN ISO 15876-1:2017 (100 °C) and the malfunction temperatures applicable to boilers conforming to the requirements of BS EN 15502-1:2021+A1:2023, BS EN 15502-2-1:2022+A1:2023 and BS EN 15502-2-2:2014 (110 °C). Consequently, piping systems used with these gas-fired central heating boilers could be subjected to temperatures in service for which they have not been tested.

c) Piping systems conforming to the requirements of the BS EN ISO 15876 series of standards are designed for hot and cold water installations and are not suitable for waste discharge from unvented hot water systems (i.e. downstream pipe D2).

d) Continuously operated recirculating domestic hot water systems (known as recirculating, secondary hot circulation, return or ring main systems) carry pumped hot potable water to outlets where the temperature is between 60 °C and 70 °C, and is replenished by an incoming water supply to replace the water drawn to outlets. Piping systems conforming to the requirements of the BS EN ISO 15876 series of standards are not suitable for this use.

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Amendments/corrigenda issued since publication

Date	Text affected
31 December 2020	Implementation of ISO amendment 1:2020 with CEN endorsement A1:2020
30 June 2024	Correction to national foreword

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 15876-5:2017+A1

December 2020

ICS 23.040.20; 91.140.60

Supersedes EN ISO 15876-5:2003

English Version

Plastics piping systems for hot and cold water installations - Polybutene (PB) - Part 5: Fitness for purpose of the system (ISO 15876-5:2017)

Systèmes de canalisations en plastique pour les installations d'eau chaude et froide - Polybutène (PB) - Partie 5: Aptitude à l'emploi du système (ISO 15876-5:2017)

Kunststoff-Rohrleitungssysteme für die Warm- und Kaltwasserinstallation - Polybuten (PB) - Teil 5: Gebrauchstauglichkeit des Systems (ISO 15876-5:2017)

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European foreword

This document (EN ISO 15876-5:2017) 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.

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 2017, and conflicting national standards shall be withdrawn at the latest by August 2017.

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Endorsement notice

The text of ISO 15876-5:2017 has been approved by CEN as EN ISO 15876-5:2017 without any modification.

European foreword to amendment A1

This document (EN ISO 15876-5:2017/A1:2020) 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.

This Amendment to the European Standard EN ISO 15876-5:2017 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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