TECHNICAL SPECIFICATION

SPÉCIFICATION TECHNIQUE

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CEN/TS 12201-7

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English Version

Plastics piping systems for water supply, and for drains and sewers under pressure - Polyethylene (PE) - Part 7: Assessment of conformity

Systèmes de canalisations en plastique pour l'alimentation en eau et pour les branchements et les collecteurs d'assainissement avec pression - Polyéthylène (PE) - Partie 7 : Évaluation de la conformité

Kunststoff-Rohrleitungssysteme für die Wasserversorgung und für Entwässerungs- und Abwasserdruckleitungen - Polyethylen (PE) - Teil 7: Beurteilung der Konformität

This Technical Specification (CEN/TS) was approved by CEN on 21 December 2025 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (CEN/TS 12201-7:2026) has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN.

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 CEN/TS 12201-7:2014.

This document includes the following significant technical changes with respect to CEN/TS 12201-7:2014:

— Guidance for the assessment of conformity given in this document has been revised to reflect the changes made to test methods and requirements given in EN 12201-1, EN 12201-2, EN 12201-3, EN 12201-4 and EN 12201-5.

— PE 100-RC type materials have been added.

The EN 12201 series consists of the following parts, under the general title "*Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE)*":

— EN 12201-1, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 1: General*

— EN 12201-2, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 2: Pipes*

— EN 12201-3, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 3: Fittings*

— EN 12201-4, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 4: Valves*

— EN 12201-5, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 5: Fitness for purpose of the system*

— CEN/TS 12201-7, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 7: Assessment of conformity*

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document details the applicable characteristics to be assessed for type testing (TT), batch release test (BRT), process verification test (PVT), and audit test (AT), as well as the frequency and sampling for testing.

The concept of testing and organization of those tests used for the AoC is shown, without or with certification, in Figures 1 and 2.

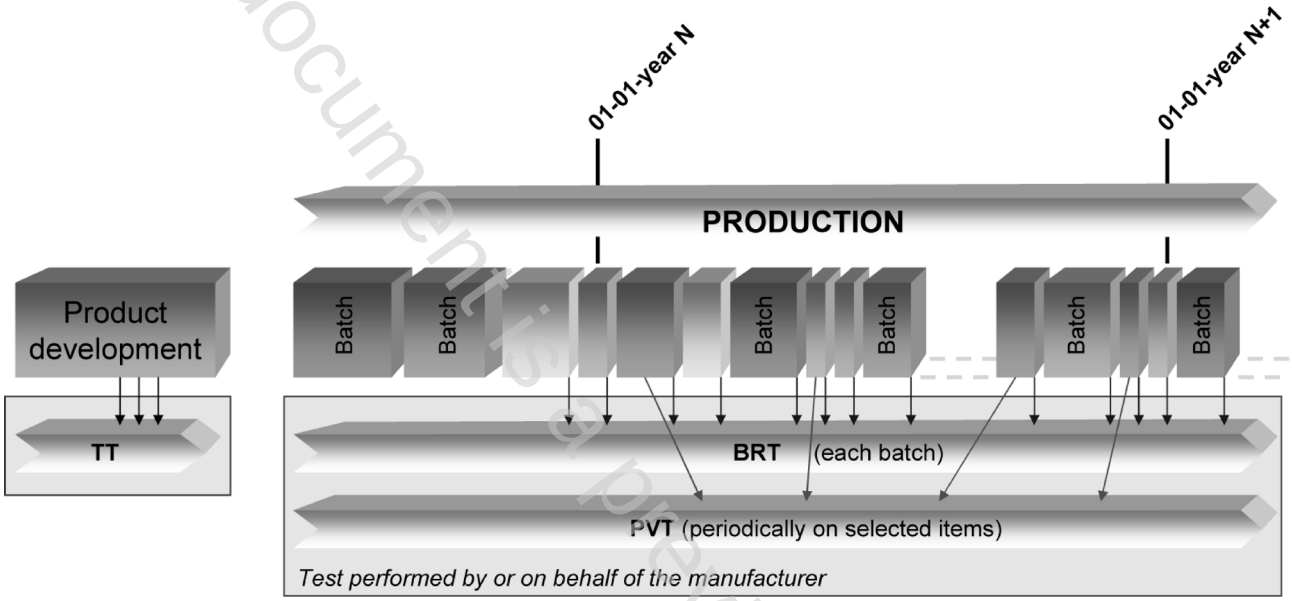

Figure 1 — Typical scheme for the AoC by a manufacturer, without certification

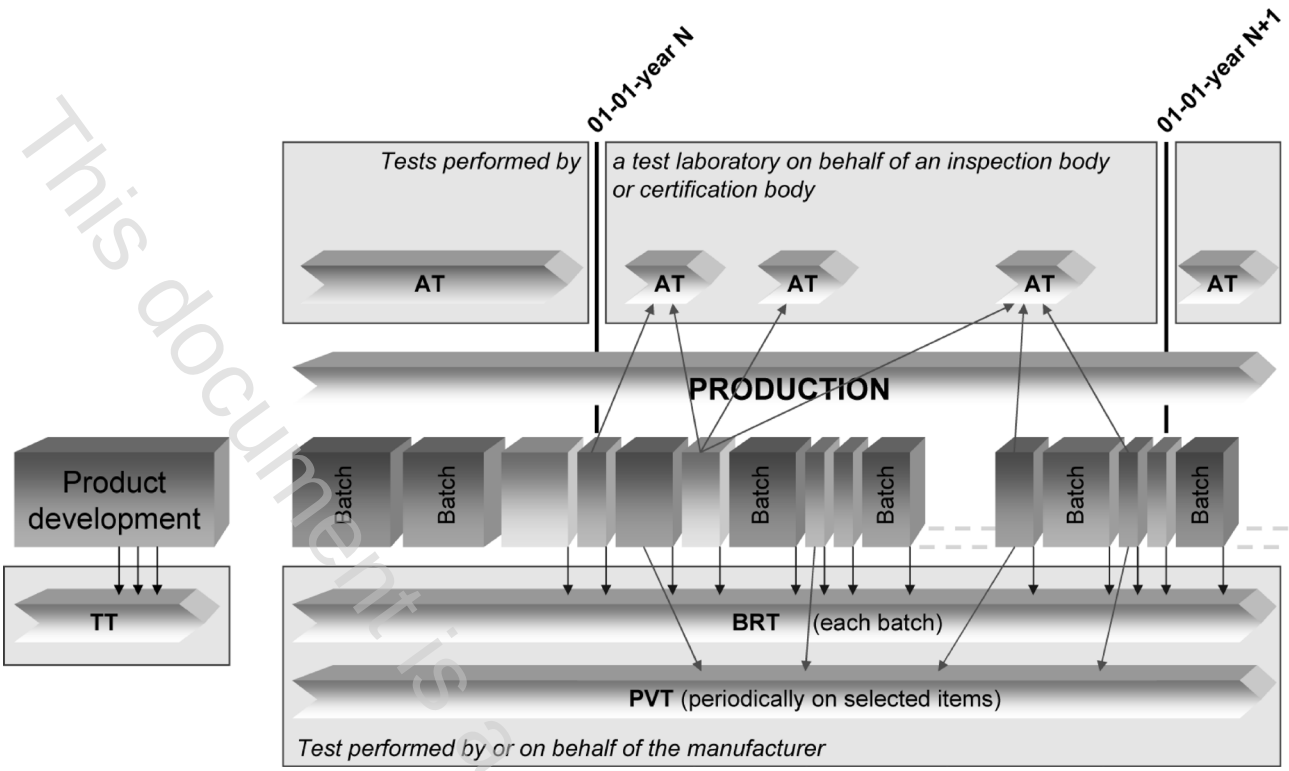

Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

1 Scope

This document gives guidance and requirements for the assessment of conformity of compounds, products, joints and assemblies in accordance with the applicable part(s) of EN 12201 intended to be included in the manufacturer's quality plan as part of the quality management system and for the establishment of certification procedures.

NOTE 1 A test matrix provides an overview of the testing scheme in Annex C, Table C.1.

NOTE 2 If certification is involved, the certification bodies and inspection bodies operating in accordance with EN ISO/IEC 17065 [6] and EN ISO/IEC 17020 [4] are considered to be competent.

Socket fusion fittings according to EN 12201-3:2024, Annex A, and mechanical fittings according to ISO 17885 are not covered in this document.

In conjunction with EN 12201-1, EN 12201-2, EN 12201-3, EN 12201-4 and EN 12201-5, this document is applicable to polyethylene (PE) pressure piping systems (mains and service pipes) for buried or above ground applications, intended for the conveyance of water for human consumption, raw water prior to treatment, drains and sewers under pressure, vacuum sewer systems, and water for other purposes, with the exception of industrial application. The intended use includes sea outfalls, laid in water and pipes suspended below bridges. It is applicable to PE pipes, fittings, and valves, their joints and joints with components of PE and other materials intended to be used under the following conditions:

a) allowable operating pressure, PFA, up to 25 bar[1];

b) an operating temperature of 20 °C as a reference temperature.

NOTE 3 Industrial application is covered by EN ISO 15494 [3].

NOTE 4 For applications operating at constant temperature greater than 20 °C and up to and including 50 °C, see EN 12201-1:2024, Annex A.

NOTE 5 It is the responsibility of the purchaser or specifier to make the appropriate selections from these aspects, taking into account their particular requirements and any relevant national guidance or regulations and installation practices or codes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12201-1:2024, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 1: General*

EN 12201-2:2024, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 2: Pipes*

EN 12201-3:2024, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 3: Fittings*

[1] 1 bar = 0,1 MPa = 10^5 Pa; 1 MPa = 1 N/mm^2

EN 12201-4:2024, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 4: Valves for water supply systems*

EN 12201-5:2024, *Plastics piping systems for water supply, and for drains and sewers under pressure — Polyethylene (PE) — Part 5: Fitness for purpose of the system*

ISO 17885, *Plastics piping systems — Mechanical fittings for pressure piping systems — Specifications*

ISO 21751, *Plastics pipes and fittings — Decohesion test of electrofusion assemblies — Strip-bend test*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12201-1, EN 12201-3 and EN 12201-4 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.1
certification body
third-party conformity assessment body operating certification schemes

Note 1 to entry: A certification body can be non-governmental or governmental (with or without regulatory authority).

[SOURCE: EN ISO/IEC 17065:2012, 3.12]

3.2
laboratory
body that performs one or more of the following activities:

— testing;

— calibration;

— sampling, associated with subsequent testing or calibration

Note 1 to entry: In the context of this document, the materials and products can be subjected to type testing, batch release testing, process verification testing, audit testing, and witness testing, as applicable.

[SOURCE: EN ISO/IEC 17025:2017, 3.6, modified — Note 1 to entry is changed here]

3.3
quality management system
part of a management system with regard to quality

Note 1 to entry: Requirements for quality management systems are given in EN ISO 9001 [2].

[SOURCE: EN ISO 9000:2015 [1], definition 3.5.4, modified — Note 1 to entry is added here]