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**Cevni sistemi iz polimernih materialov za odpadno vodo in kanalizacijo, ki delujejo po težnostnem principu in so položeni v zemljo - Cevni sistemi s strukturirano steno iz nemehčane polivinilklorida (PVC-U), polipropilena (PP) in polietilena (PE) - 4. del: Ugotavljanje skladnosti**

Plastics piping systems for non-pressure underground drains and sewers - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 4: Assessment of conformity

Kunststoff-Rohrleitungssysteme für erdverlegte drucklose Abwasserkanäle und -leitungen - Rohrleitungssysteme mit profilierter Wandung aus weichmacherfreiem Polyvinylchlorid (PVC-U), Polypropylen (PP) und Polyethylen (PE) - Teil 4: Beurteilung der Konformität

Systèmes de canalisations en plastique pour les branchements et les collecteurs d'assainissement sans pression enterrés - Systèmes de canalisations à parois structurées en poly(chlorure de vinyle) non plastifié (PVC-U), polypropylène (PP) et polyéthylène (PE) - Partie 4 : Évaluation de la conformité

**Ta slovenski standard je istoveten z: CEN/TS 13476-4:2025**

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**ICS:**

23.040.05	Cevovodi za zunanje sisteme za odpadno vodo in njihovi deli	Pipeline and its parts for external sewage systems
91.140.80	Drenažni sistemi	Drainage systems
93.030	Zunanji sistemi za odpadno vodo	External sewage systems

**SIST-TS CEN/TS 13476-4:2025**

**en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

**CEN/TS 13476-4**

October 2025

ICS 23.040.20; 93.030

Supersedes CEN/TS 13476-4:2019

English Version

Plastics piping systems for non-pressure underground  
drains and sewers - Structured-wall piping systems of  
unplasticized poly(vinyl chloride) (PVC-U), polypropylene  
(PP) and polyethylene (PE) - Part 4: Assessment of  
conformity

Systèmes de canalisations en plastique pour les  
branchements et les collecteurs d'assainissement sans  
pression enterrés - Systèmes de canalisations à parois  
structurées en poly(chlorure de vinyle) non plastifié  
(PVC-U), polypropylène (PP) et polyéthylène (PE) -  
Partie 4 : Évaluation de la conformité

Kunststoff-Rohrleitungssysteme für erdverlegte  
drucklose Abwasserkanäle und -leitungen -  
Rohrleitungssysteme mit profilierter Wandung aus  
weichmacherfreiem Polyvinylchlorid (PVC-U),  
Polypropylen (PP) und Polyethylen (PE) - Teil 4:  
Beurteilung der Konformität

This Technical Specification (CEN/TS) was approved by CEN on 11 August 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.

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

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## European foreword

This document (CEN/TS 13476-4:2025) 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 13476-4:2019.

This document includes the following significant technical changes with respect to CEN/TS 13476-4:2019:

- a) updating of the “terms” and “definitions” in line with EN 14541-1;
- b) “drainage and sewerage” changed into “drains and sewers” through the document;
- c) updated in line with material clauses and annexes prEN series;
- d) updated in line with detected and solved mistakes in prEN series;
- e) Table A.1 updated;
- f) editorial updates through the document.

EN 13476 consists of the following parts, under the general title “*Plastics piping systems for non-pressure underground drains and sewers — Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE)*”:

- Part 1: General requirements and performance characteristics;
- Part 2: Specifications for pipes and fittings with smooth internal and external surface and the system, Type A;
- Part 3: Specifications for pipes and fittings with smooth internal and profiled external surface and the system, Type B;
- Part 4: Guidance for the assessment of conformity (this document).

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.

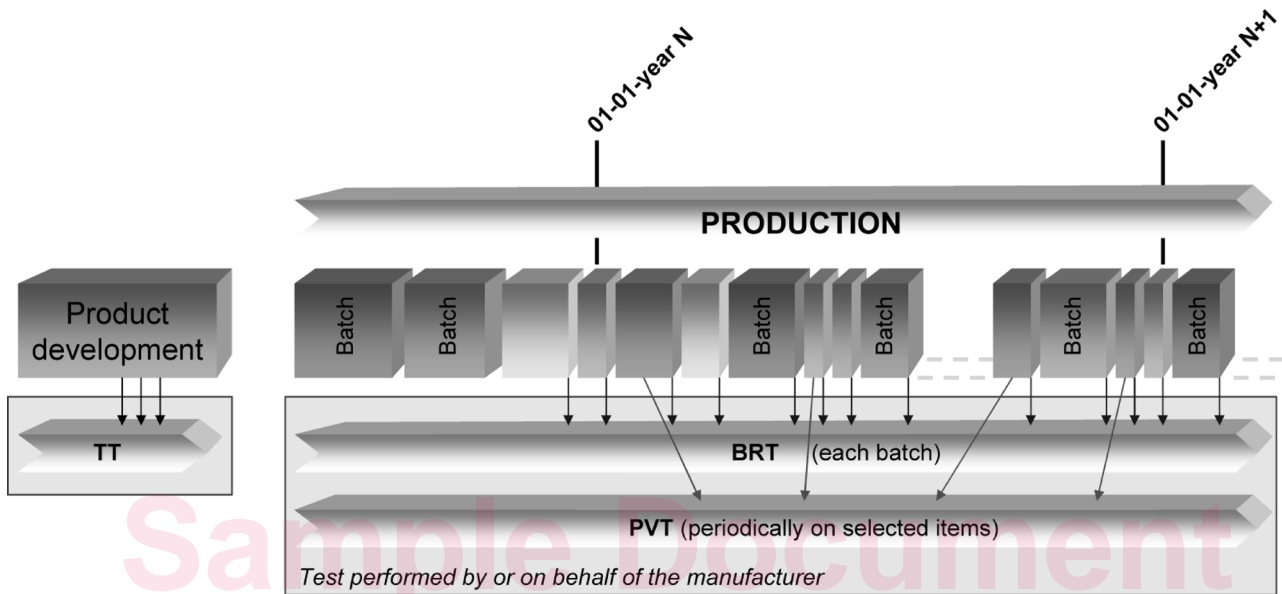


Figure 1 — Typical scheme for the AoC by a manufacturer, without certification

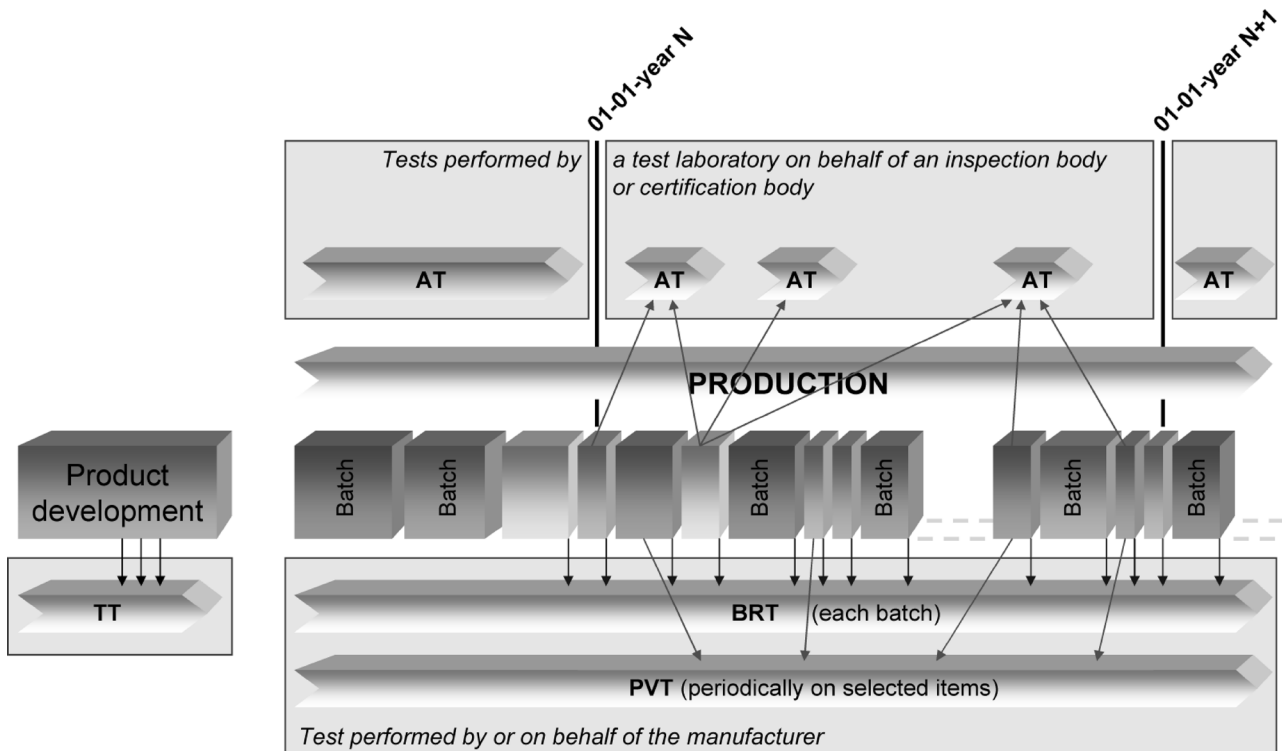


Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

## 1 Scope

This document gives guidance and requirements for the assessment of conformity of materials, products, joints and assemblies in accordance with the applicable part(s) of EN 13476 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 A, Table A.1.

NOTE 2 If certification is involved, the certification body operating in accordance with EN ISO/IEC 17065 <sup>[1]</sup> and EN ISO/IEC 17020 <sup>[2]</sup> is considered to be competent.

In conjunction with EN 13476-1:2025, EN 13476-2:2025 and EN 13476-3:2025 this document is applicable to Plastics piping systems for non-pressure underground drains and sewers — Structural-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE).

The application area code used in the marking of pipes and fittings indicates for which application area(s) the products are intended:

U: for the area more than 1 m from the building to which the buried piping system is connected, and

UD: for application area U and the area under and within 1 m from the building where the pipes and the fittings are buried in ground and are connected to the soil and waste discharge system of the building.

## 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 13476-1:2025, *Plastics piping systems for non-pressure underground drains and sewers — Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Part 1: General requirements and performance characteristics*

EN 13476-2:2025, *Plastics piping systems for non-pressure underground drains and sewers — Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Part 2: Specifications for pipes and fittings with smooth internal and external surface and the system, Type A*

EN 13476-3:2025, *Plastics piping systems for non-pressure underground drains and sewers — Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Part 3: Specifications for pipes and fittings with smooth internal and profiled external surface and the system, Type B*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13476-1:2025, EN 13476-2:2025 and EN 13476-3:2025 and the following apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

## CEN/TS 13476-4:2025 (E)

### 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 <sup>[1]</sup>, definition 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 and audit testing, as applicable.

[SOURCE: EN ISO/IEC 17025:2017 <sup>[3]</sup>, definition 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 <sup>[4]</sup>.

[SOURCE: EN ISO 9000:2015 <sup>[5]</sup>, definition 3.5.4, modified — Note 1 to entry is added here]

### 3.4

#### **quality plan**

document setting out the specific quality practices, responsibilities, resources and sequence of activities relevant to a particular product or range of products

### 3.5

#### **type test**

##### **TT**

test performed to prove that the material, component, product, joint or assembly is capable of conforming to the requirement(s) given in the relevant standard or if applicable to determine the manufacturer's declared values

### 3.6

#### **batch release test**

##### **BRT**

test performed on a batch of material, components, products, joints or assemblies which has to be satisfactorily completed before the batch can be released

Note 1 to entry: A batch release test can be performed by the manufacturer or outsourced on behalf of the manufacturer.

### 3.7

#### **process verification test**

##### **PVT**

test performed on material, component, product, joint or assembly by or on behalf of the manufacturer on compound or products or joints or assemblies at specific intervals to confirm that type tests originally performed continue to be valid

Note 1 to entry: Process verification tests can be performed by the manufacturer or outsourced on behalf of the manufacturer.

### 3.8

#### **audit test**

##### **AT**

test performed on behalf of a certification body

Note 1 to entry: Audit tests are generally required to confirm that the material, formulation, compound, product, joint or assembly continues to conform to the requirements given in the relevant standard and to provide information to assess the effectiveness of the quality management system

### 3.9

#### **indirect test**

batch release test performed which differs from that specified test for that particular characteristic, having previously verified its correlation with the specified test

Note 1 to entry: Indirect tests can be performed by the manufacturer or outsourced on behalf of the manufacturer.

### 3.10

#### **witness test**

type test or audit test which is performed in the presence of a representative of the certification body

### 3.11

#### **material**

generic term for compounds and formulations grouped by families, expressed by generic names

Note 1 to entry: Examples of generic names are PVC-U, polypropylene.

### 3.12

#### **Compound or formulation**

homogenous mixture of substances used for the manufacture of the product as defined in the referring product standard

Note 1 to entry: In general, the term “compound” is used for polyolefins and the term “formulation” for PVC.

Note 2 to entry: The term “composition” is often used instead of [*compound*] [*formulation*] for metals and when dealing with water and food contact regulations.

### 3.13

#### **material batch**

quantity of a given homogeneous compound / formulation manufactured under uniform conditions defined and identified by the compound / formulation manufacturer

### 3.14

#### **product**

item as defined in the scope of the standard, e.g. pipe, fitting, valve, manhole, inspection chamber