
Cevni sistemi iz polimernih materialov, ki delujejo po težnostnem principu in so položeni v zemljo, za transport površinske vode - Neplastificiran polivinilklorid (PVC-U), polipropilen (PP) in polietilen (PE) - 3. del: Ugotavljanje skladnosti

Plastics piping systems for non-pressure underground conveyance of surface water - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 3: Assessment of conformity

Kunststoff-Rohrleitungssysteme für die drucklose unterirdische Ableitung von Oberflächenwasser - Weichmacherfreies Poly(vinylchlorid) (PVC-U), Polypropylen (PP) und Polyethylen (PE) - Teil 3: Beurteilung der Konformität

Systèmes de canalisations en plastique pour le transport souterrain sans pression des eaux de surface - Poly(chlorure de vinyle) non plastifié (PVC-U), polypropylène (PP) et polyéthylène (PE) - Partie 3 : Évaluation de la conformité

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Plastics piping systems for non-pressure underground conveyance of surface water - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 3: Assessment of conformity

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This Technical Specification (CEN/TS) was approved by CEN on 11 November 2024 for provisional application.

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European foreword

This document (CEN/TS 17670-3:2024) 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.

EN 17670 consists of the following parts, under the general title “*Plastics piping systems for non-pressure underground conveyance of surface water — Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE)*”:

- *Part 1: Specifications for manholes and inspection chambers (under development);*
- *Part 2: Specification for road gullies;*
- *Part 3: Assessment of conformity (this document).*

This version of Part 3 covers products according to Part 2. Part 1 is still under development and will be included if/when available.

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.

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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.

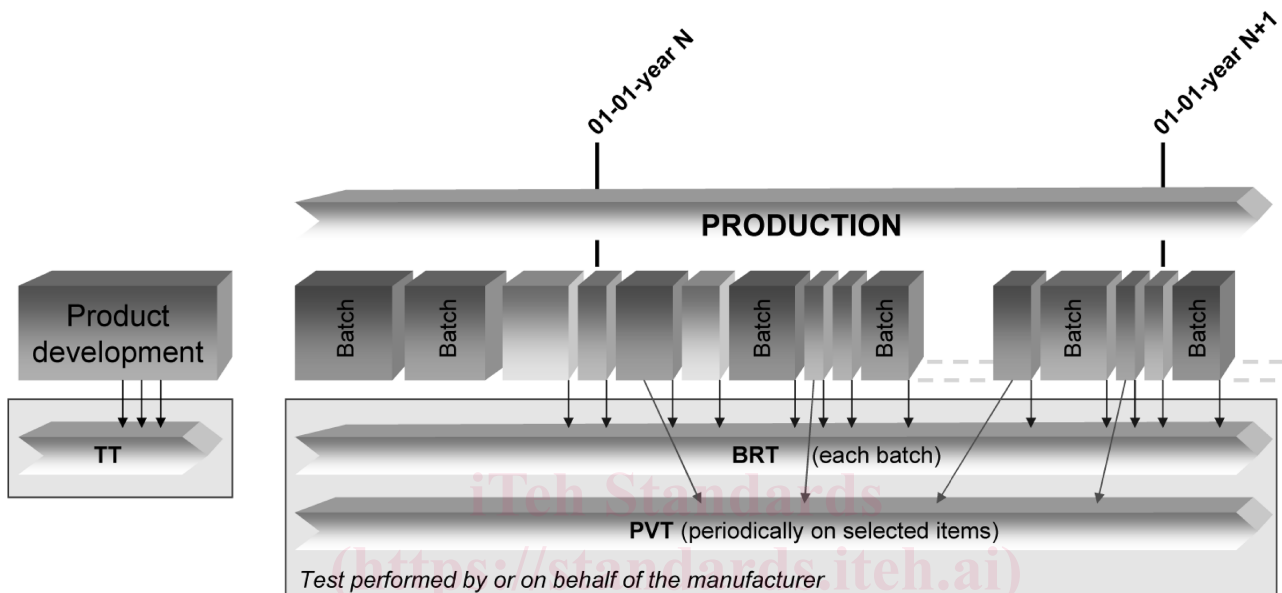


Figure 1 — Typical scheme for the AoC by a manufacturer, without certification

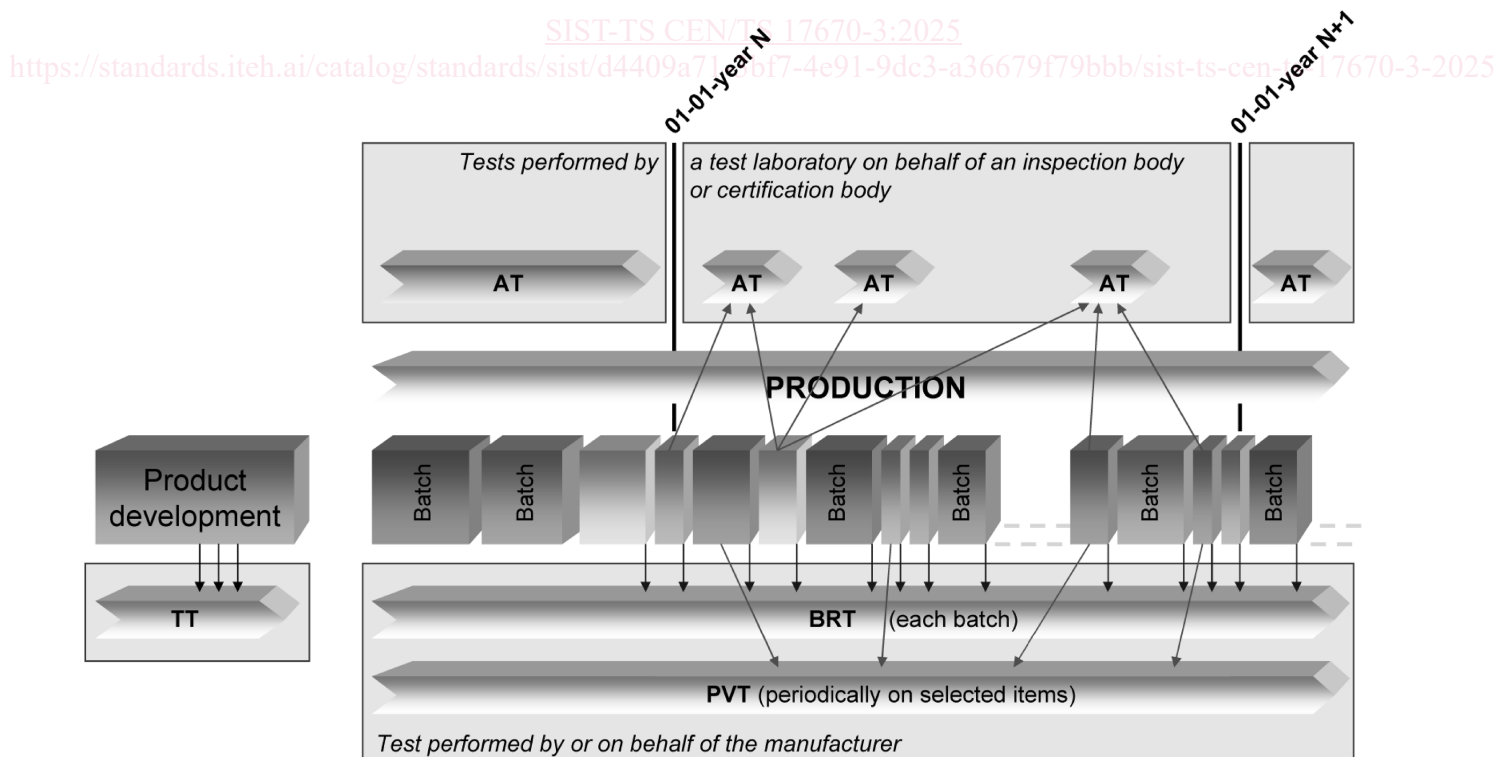


Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

1 Scope

This document gives guidance and requirements for the assessment of conformity of materials (compounds/formulations), products, joints and assemblies in accordance with EN 17670-2 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 [1] and EN ISO/IEC 17020 [2] is considered to be competent.

In conjunction with EN 17670-2 this document is applicable to road gullies.

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 17670-2, *Plastics piping systems for non-pressure underground conveyance of surface water — Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) — Part 2: Specification for road gullies*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17670-2 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/>

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 [1], 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 [3], definition 3.6, modified — Note 1 to entry is changed here]

CEN/TS 17670-3:2024 (E)**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 [4].

[SOURCE: EN ISO 9000:2015 [5], 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/formulations grouped by families, expressed by generic names

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

3.12**substance**

polymer, additive, element or chemical compound as used in compounds/formulations

3.13**compound/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.

3.14**material batch**

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

3.15**product**

item as defined in the scope of the standard, e.g. [*road gully*], [*manhole*], [*inspection chamber*]

3.16**product batch**

clearly identified collection of products, manufactured consecutively or continuously under the same conditions, using the same compound/formulation conforming to the same specification

3.17**sample**

one or more components or products drawn from the same production batch, selected at random without regard to their quality

3.19**sampling group**

defined collection of similar components/products from which samples are selected for testing purposes

3.20**component**

item manufactured or supplied as part of a product or as a spare part for that product

3.21**joint**

connection between two products

CEN/TS 17670-3:2024 (E)**3.23****fabricated fitting**

fitting produced by welding, thermoforming or adhesive joint from pipes and/or from injection-moulded [or rotomoulded] fittings

3.24**assembly**

set of components that forms a product or a test piece

4 Abbreviated terms

To avoid misunderstanding, the abbreviated terms in this clause are defined as being the same in each language. For the same reason, the terms are given in the three languages, English, French and German.

	EN	FR	DE
AoC	assessment of conformity	évaluation de la conformité	Beurteilung der Konformität
AT	audit test	essai d'audit	Überwachungsprüfung
BRT	batch release test	essai de libération de campagne de fabrication	Freigabeprüfung einer Charge
PVT	process verification test	essai de vérification du procédé de fabrication	Prozessüberprüfung
TT	type test	essai de type	Typprüfung

5 General

Materials, products and fitness for purpose shall conform to the requirements given in EN 17670-2.

Materials and products shall be produced by the manufacturer under a quality management system which includes a quality plan.

6 Testing**6.1 Grouping****6.1.1 General**

For the purpose of this document, when applicable, the sampling groups specified below apply:

6.1.2 Size groups

For road gullies, the size groups are defined in Table 1.

Table 1 — Size groups

Size group	Access diameter, DN mm
1	$200 \leq \text{DN} \leq 500$
2	$\text{DN} > 500$