
Cevni sistemi iz polimernih materialov za (nizko- in visokotemperaturne) odvodne sisteme v stavbah - Akrlonitril-butadien-stiren (ABS) - 2. del: Ugotavljanje skladnosti

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS) - Part 2: Assessment of conformity

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur - Acrylnitril-Butadien-Styrol (ABS) - Teil 2: Beurteilung der Konformität

Systèmes de canalisations en plastique pour l'évacuation des eaux-vannes et des eaux usées (à basse et à haute température) à l'intérieur de la structure des bâtiments - Acrylonitrile-butadiène-styrène (ABS) - Partie 2 : Évaluation de la conformité

Ta slovenski standard je istoveten z: FprCEN/TS 1455-2

ICS:

23.040.01	Deli cevodovov in cevodovi na splošno	Pipeline components and pipelines in general
91.140.80	Drenažni sistemi	Drainage systems

kSIST-TS FprCEN/TS 1455-2:2023 **en,fr,de**

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
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FINAL DRAFT
FprCEN/TS 1455-2

May 2023

ICS 23.040.01; 91.140.80

Will supersede CEN/TS 1455-2:2012

English Version

Plastics piping systems for soil and waste discharge (low
and high temperature) within the building structure -
Acrylonitrile-butadiene-styrene (ABS) - Part 2:
Assessment of conformity

Systèmes de canalisations en plastique pour
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der Gebäudestruktur - Acrylnitril-Butadien-Styrol
(ABS) - Teil 2: Beurteilung der Konformität

This draft Technical Specification is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 155.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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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 (FprCEN/TS 1455-2:2023) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN.

This document is currently submitted to the Vote on TS.

This document will supersede CEN/TS 1455-2:2012.

EN 1455 consists of the following parts, under the general title “*Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS)*”:

- *Part 1: Specifications for pipes, fittings and the system;*
- *Part 2: Assessment of conformity* (this document)

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Introduction

This document is based on the template prepared in CEN/TC 155/WG 21, Edition 6 (see document CEN/TC 155/WG 21 N1112).

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.

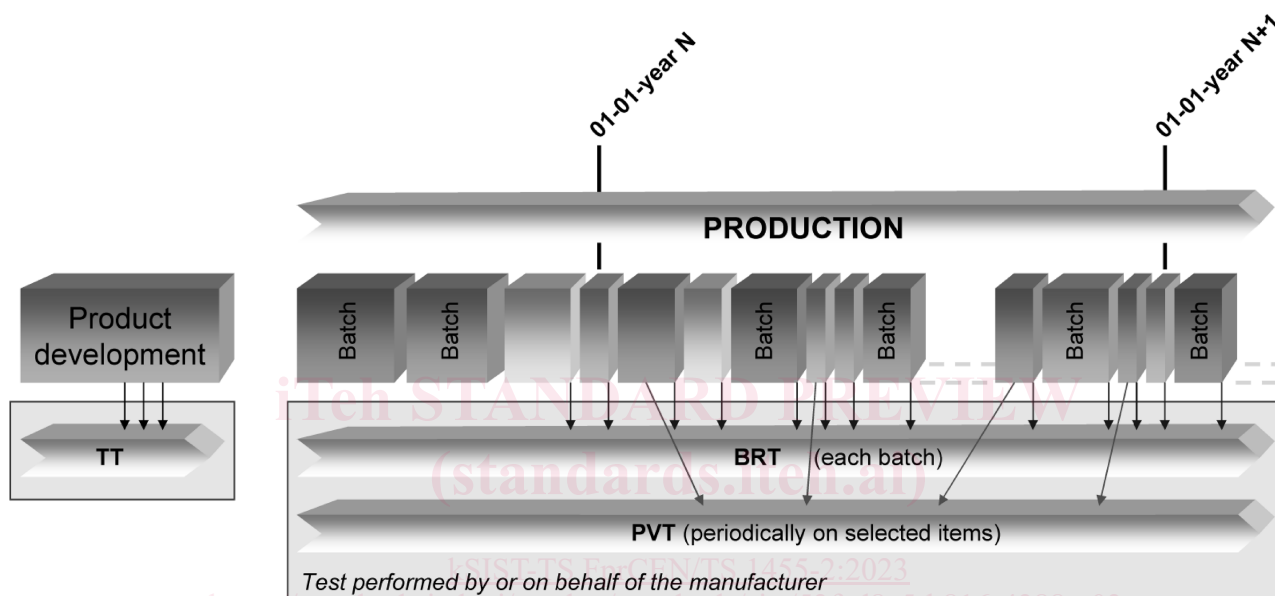


Figure 1 — Typical scheme for the AoC by a manufacturer, without certification

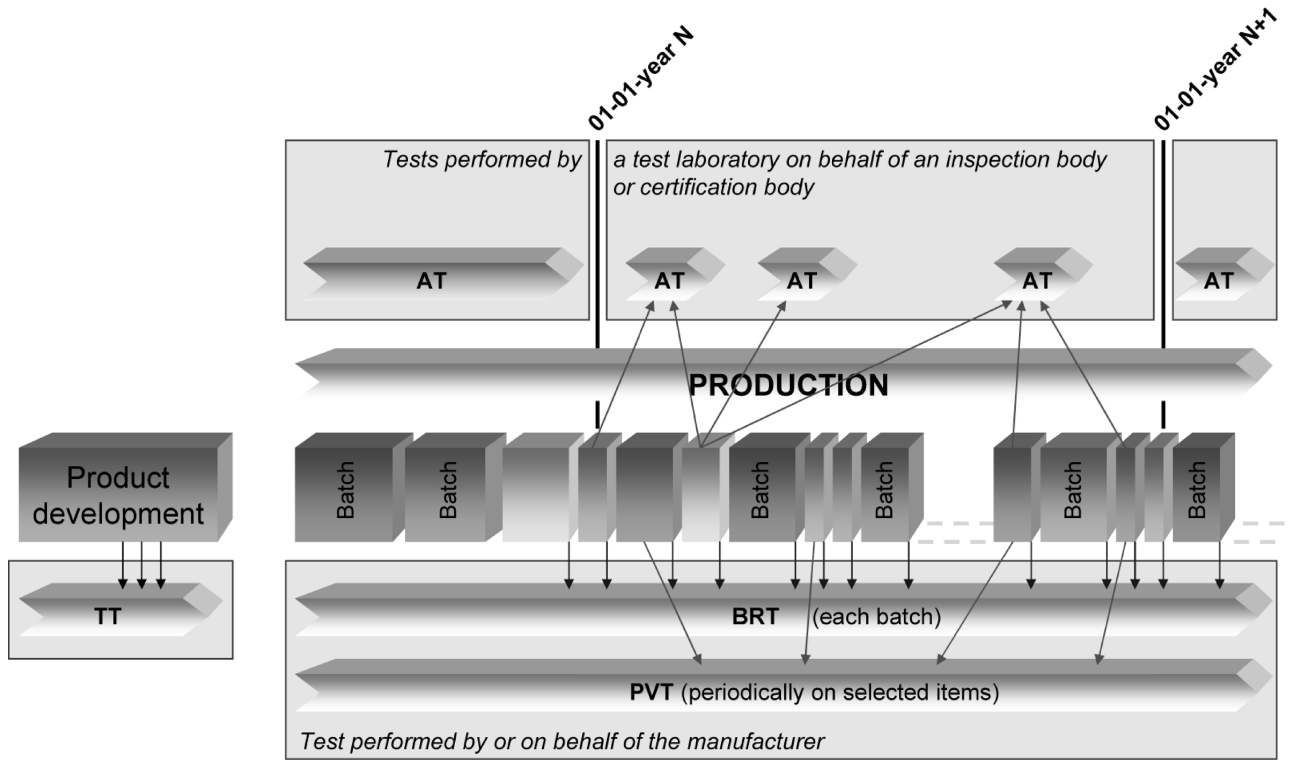


Figure 2 — Typical scheme for the AoC by a manufacturer, including certification

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FprCEN/TS 1455-2:2023 (E)**1 Scope**

This document gives guidance for specifying requirements for the AoC of compounds/formulation, products, joints and assemblies in accordance with the applicable part of EN 1455 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 A basic test matrix provides an overview of the testing scheme in Annex A, Table A.1.

In conjunction with EN 1455-1 (see European foreword), this document is applicable to solid wall piping systems made of acrylonitrile-butadiene-styrene (ABS) intended to be used for soil and waste discharge (low and high temperature):

- inside buildings (application area code "B");
- both inside buildings and buried in ground within the building structure (application area code "BD").

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.

FprEN 1455-1:2023, *Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Acrylonitrile-butadiene-styrene (ABS) — Part 1: Requirements for pipes, fittings and the system*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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

impartial body, governmental or non-governmental, possessing the necessary competence to carry out certification of conformity according to given rules of procedure and management

Note 1 to entry: In this document, certification is understood as third party certification.

Note 2 to entry: For assessment purposes, the certification body can delegate tasks to an inspection body or a testing laboratory.

Note 3 to entry: The certification body preferably operates in accordance with EN ISO/IEC 17065 [2].

3.2 inspection body

body that performs examination of a product, process, service, or installation or their design and determination of its conformity with specific requirements or, on the basis of professional judgment, with general requirements

[SOURCE: EN ISO/IEC 17020:2012 [3], definition 3.5 combined with definition 3.1 modified – Notes to entry 1, 2, 3 and 4 are not included]

Note 1 to entry: An inspection body is, either an organization or a part of an organization, mandated by the certification body.

Note 2 to entry: An inspection body is preferably operates in accordance with EN ISO/IEC 17020 [3].

3.3 testing laboratory

laboratory which measures, tests, calibrates or otherwise verifies the performance of the characteristics of materials and products

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.

Note 2 to entry: A testing laboratory preferably operates in accordance with EN ISO/IEC 17025 [4].

3.4 quality management system

part of a management system with regard to quality

[SOURCE: EN ISO 9000:2015 [5], definition 3.5.4]

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

3.5 quality plan

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

3.6 type test

TT

test performed to prove that the material, product, joint or assembly is capable of conforming to the requirement(s) given in the relevant standard

3.7 batch release test

BRT

test performed on a batch of material, 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.

3.8 process verification test

PVT

test performed on material, product, joint or assembly at specific intervals to confirm that the process continues to be capable of producing products which conform to the requirements given in the relevant standard

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

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Note 2 to entry: Process verification tests are regularly performed to demonstrate that the product remains compliant with the type test results.

3.9 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, 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.

3.10 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.

3.11 witness test

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

3.12 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.

3.13 substance

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

3.14 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 for metals and when dealing with water and food contact regulations.

3.15 material batch

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

3.16 product

item as defined in the scope of the standard, e.g. pipe, fitting

3.17**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

3.18**sample**

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

3.19**group**

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

3.20**component**

item manufactured out of a specific compound/formulation, supplied as part of a product or as a spare part for that product

3.21**joint**

connection between two products

3.22**assembled product**

final product comprising two or more components

3.23**fabricated fitting**

fitting produced by welding, thermoforming or adhesive jointing from pipes and/or from injection-moulded fittings

3.24**assembly**

set of components that forms a product or a test piece

3.25**cavity**

space within a mould to be filled to form the moulded product

EXAMPLE That part of the injection mould which gives the form to the injection-moulded product.

4 Abbreviated terms

To avoid misunderstanding, the abbreviations 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
AT	audit test	essai d'audit	Überwachungsprüfung
BRT	batch release test	essai de libération de campagne de fabrication	Freigabepfung einer Charge
PVT	process verification test	essai de vérification du procédé de fabrication	Prozessüberprüfung
TT	type test	essai de type	Typpfung