

7 Yj b]g]ghYa]g'gfi _li f]fUbc`ghYbc`Wj]nUbn_c!`]b`j]gc_chYa dYfUi fbY`cXj cXbY
g]ghYa Yj`n[fUXVU`!`BYa Y` Ub`dc`jj]b]`_cf]X`fDJ7!! L!`&`XY.`BUj cX]`c`nU
i [cHUj`Ub`Y`g`_UXbcgh]

Plastics piping systems with structured wall pipes for soil and waste discharge (low and high temperature) inside buildings - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity

iTeh STANDARD PREVIEW

Kunststoff-Rohrleitungssysteme mit Rohren mit profilierter Wandung und glatten Rohroberflächen zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb von

Gebäuden - Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 2: Empfehlungen für die Beurteilung der Konformität

<https://standards.iteh.ai/catalog/standards/sist/cc2e6319-b5b3-46a5-8b0c-a0129b784a28/sist-env-1453-2-2001>

Systemes de canalisations en plastique avec des tubes a paroi structurée pour l'évacuation des eaux-vannes et des eaux usées (a basse et a haute température) a l'intérieur du bâtiment -Poly(chlorure de vinyle) non plastifié (PVC-U) - Partie 2: Guide pour l'évaluation de la conformité

Ta slovenski standard je istoveten z: ENV 1453-2:2000

ICS:

23.040.01	Deli cevovodov in cevovodi na splošno	Pipeline components and pipelines in general
91.140.80	Drenažni sistemi	Drainage systems

SIST ENV 1453-2:2001**en**

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ICS 23.040.01; 91.140.80

English version

Plastics piping systems with structured wall pipes for soil and waste discharge (low and high temperature) inside buildings - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity

Systèmes de canalisations en plastique avec des tubes à paroi structurée pour l'évacuation des eaux-vannes et des eaux usées (à basse et à haute température) à l'intérieur du bâtiment - Poly(chlorure de vinyle) non plastifié (PVC-U) - Partie 2: Guide pour l'évaluation de la conformité

Kunststoff-Rohrleitungssysteme mit Röhren mit profilierter Wandung und glatten Rohroberflächen zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb von Gebäuden - Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 2: Empfehlungen für die Beurteilung der Konformität

This European Prestandard (ENV) was approved by CEN on 10 August 2000 as a prospective standard for provisional application.

The period of validity of this ENV 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 ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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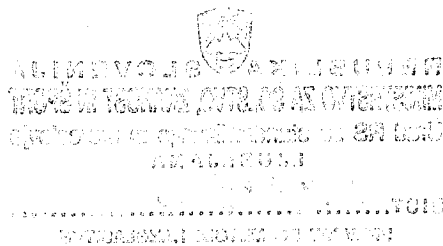
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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems", the secretariat of which is held by NEN.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This document is currently submitted to the Formal Vote.

This prestandard can be used to support elaboration of national third party certification procedures for products conforming to EN 1453-1.

This prestandard is a Part of a System Standard for plastics piping systems of a particular material for a specified application. There are a number of such System Standards.

System Standards are based on the results of the work undertaken in ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids", which is a Technical Committee of the International Organisation for Standardisation (ISO).

They are supported by separate standards on test methods to which references are made throughout the System Standard.

The System Standards are consistent with general standards on functional requirements and on recommended practice for installation.

EN 1453 consists of the following Parts, under the general title "*Plastics piping systems with structured wall pipes for soil and waste discharge (low and high temperature) inside buildings – Unplasticized poly(vinyl chloride) (PVC-U)*".

- Part 1: *Specifications for pipes and the system* ;
- Part 2: *Guidance for the assessment of conformity (ENV)*;1

This Part of EN 1453 includes a bibliography.

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Introduction

The System Standard, of which this is Part 2, specifies the requirements for a piping system and its pipes when made from unplasticized poly(vinyl chloride) (PVC-U). The piping system is intended to be used for soil and waste discharge.

For material and pipes, requirements and characteristics for fitness for purpose (mainly for joints) are covered in Part 1 of EN 1453. Recommended practice for installation is given in ENV 13801.

This Part of EN 1453 covers procedures and recommendations for the assessment of conformity of materials, pipes, joints and assemblies and is intended to be used by certification bodies, inspection bodies, testing laboratories and manufacturers.

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1 Scope

This European Prestandard gives guidance for the assessment of conformity to be included in the manufacturer's quality plan as part of the quality system.

This prestandard includes :

- a) Requirements for materials, pipes, joints and assemblies given in EN 1453-1 ;
- b) Requirements for the manufacturer's quality system ;

NOTE 1 It is recommended that the quality system conforms to EN ISO 9001 or EN ISO 9002, as applicable.

- c) Definitions and procedures to be applied if third party certification is involved.

NOTE 2 If third party certification is involved, it is recommended that the certification body is accredited to EN 45011 or EN 45012, as applicable.

This Part of EN 1453 is applicable to piping systems with structural-wall pipes made from unplasticized poly(vinyl chloride) (PVC-U) in the field of soil and waste discharge systems (low and high temperature) inside buildings (application area code "B").

2 Normative references

This European Prestandard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this European Prestandard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1453-1:2000, *Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: Specifications for pipes and the system.*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1 : Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection.*

3 Definitions, symbols and abbreviations

For the purposes of this prestandard, the definitions, symbols and abbreviations given in EN 1453-1:2000, apply together with the following :

3.1 Definitions

3.1.1

certification body

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

3.1.2

inspection body

impartial organization or company, approved by a certification body as possessing the necessary competence to verify and/or to carry out initial type testing, audit testing and inspection of the manufacturer's factory production control in accordance with the relevant European Standard

3.1.3

testing laboratory

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

**3.1.4
quality system**

organizational structure, responsibilities, procedures, processes and resources for implementing quality management (see EN ISO 8402)

**3.1.5
quality plan**

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

**3.1.6
type testing (TT)**

tests performed to prove that the material, component, joint or assembly is capable of conforming to the requirements given in the relevant standard

**3.1.6.1
preliminary type testing (PTT)**

type testing carried out by or on behalf of the manufacturer

**3.1.6.2
initial type testing (ITT)**

type testing carried out by, or on behalf of a certification body for certification purposes

**3.1.7
batch release test (BRT)**

test performed by the manufacturer on a batch of components which has to be satisfactorily completed before the batch can be released

**3.1.8
process verification test (PVT)**

test performed by the manufacturer on materials, components, joints or assemblies at specified intervals to confirm that the process continues to be capable of producing components conforming to the requirements given in the relevant standard

NOTE Such tests are not required to release batches of components and are carried out as a measure of process control.

**3.1.9
audit test (AT)**

test performed by, or on behalf of a certification body to confirm that the material, component, joint or assembly continues to conform with the requirements given in a System Standard and to provide information to assess the effectiveness of the quality system

**3.1.10
indirect test (IT)**

test performed by the manufacturer different from that specified for that particular characteristic, having verified its correlation with the specified test

**3.1.11
witness testing (WT)**

testing accepted by the certification body for initial type testing and/or audit testing, which is carried out by, or on behalf of the manufacturer and supervised by a representative of the certification body, qualified in testing

**3.1.12
material**

defined type of polymer or additive or constituent thereof

**3.1.13
compound (blend)**

recipe which defines types of polymer, additives or constituents at specified dosage levels.

**3.1.14
material batch or compound batch**

clearly identifiable quantity of a particular material or compound

3.1.15**production batch**

clearly identifiable collection of units, manufactured consecutively under the same conditions, using material or compound conforming to the same specification

3.1.16**lot**

clearly identifiable sub-division of a batch for inspection purposes

3.1.17**sample**

one or more units of product drawn from a batch or lot, selected at random without regard to quality

NOTE The number of units of product in the sample is the sample size

3.1.18**inspection level**

relationship between the lot or batch size and the sample size (see ISO 2859-1)

3.1.19**group**

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

3.2 Abbreviations

NOTE For reasons of avoiding misunderstanding the following abbreviations are kept the same in each languages. For the same reason the terms are given in the three languages.

AT	E : audit test F : essai d'audit D : Überwachungsprüfung
BRT	E : batch release test F : essai de libération de campagne de fabrication D : Freigabepfung einer Charge
IT	E : indirect test F : essai indirect D : indirekte Prüfung
ITT	E : initial type testing F : essai de type initial D : Erst-Typprüfung
PTT	E : preliminary type testing F : essai de type préliminaire D : vorausgehende Typprüfung
PVT	E : process verification test F : essai de vérification du procédé de fabrication D : Prozessüberprüfung
TT	E : type test F : essai de type D : Typprüfung
WT	E : witness testing F : essai témoin D : Prüfung unter Aufsicht

4 Requirements**4.1 General**

4.1.1 Materials, pipes, joints and assemblies shall conform to the requirements given in EN 1453-1:2000.