

7 Yj b]g]ghYa]]n'dc`ja Yfb] `a UHf]Ucj `nU'bn_c!]b`j]gc_chYa dYfUhi fbY'cXj cXbY
g]ghYa Yj `n[fUXVU `!BYa Y U'b'dc`jj]b] `cf]X'fDJ7 !! Ł! '&'XY. 'BUj cX]c`nU
i [cHUj `Ub^g `UXbcgh]

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity

iTeh STANDARD PREVIEW

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur Weichmacherfreies Polyvinylchlorid (PVC-U) - Teil 2: Empfehlungen für die Beurteilung der Konformität

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

Ta slovenski standard je istoveten z: ENV 1329-2:2001

ICS:

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

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en

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EUROPEAN PRESTANDARD
PRÉNORME EUROPÉENNE
EUROPÄISCHE VORNORM

ENV 1329-2

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English version

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity

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 - Poly(chlorure de vinyle) non plastifié (PVC-U) - Partie 2: Guide pour l'évaluation de la conformité

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This European Prestandard (ENV) was approved by CEN on 8 March 2001 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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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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.

This prestandard can be used to support elaboration of national third party certification procedure for products conforming to EN 1329-1:1999.

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 Organization 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 1329 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 — Unplasticized poly(vinyl chloride) (PVC-U)*"

– Part 1: *Specifications for pipes, fittings and the system* ;

– Part 2: *Guidance for the assessment of conformity*; 2002

The Recommended practice for installation is dealt with in ENV 13801.

This part of EN 1329 includes a bibliography.

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.

Introduction

The System Standard, of which this is Part 2, specifies the requirements for a piping system and its components 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 components, requirements and test methods are specified in EN 1329-1. This standard also covers characteristics for fitness for purpose (mainly for joints). Recommended practice for installation is given in ENV 13801.

This Part of EN 1329 covers procedures and recommendations for the assessment of conformity of materials, components, 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, components, joints and assemblies given in EN 1329-1:1999;
- b) Requirements for the manufacturer's quality system ;

NOTE 1 It is recommended that the quality system conforms to EN ISO 9001, 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 1329 is applicable to piping systems 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") and for soil and waste discharge systems for both inside buildings and buried in ground within the building structure (application area code "BD"). This is reflected in the marking of products by "B" or "BD".

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). <https://standards.iteh.ai/catalog/standards/sist/c3c28805-c442-4b64-b2fb-a9786945c91a/sist-env-1329-2-2002>

EN 1329-1:1999, *Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure — Unplasticized poly(vinyl chloride) (PVC-U) — Part 1: Specifications for pipes, fittings and the system.*

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

3 Definitions, symbols and abbreviations

For the purposes of this European Prestandard, the definitions, symbols and abbreviations given in EN 1329-1:1999, 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	https://standards.iteh.ai/catalog/standards/sist/c3c28805-c442-4b64-b2fb-a9786945c91a/sist-env-1329-2-2002
	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, components, joints and assemblies shall conform to the requirements given in EN 1329-1:1999.

4.1.2 Components and/or assemblies shall be produced by the manufacturer under a quality system which includes a quality plan.

4.2 Testing and inspection

4.2.1 Material specification

For the purposes of this prestandard the material specification consists of a recipe/compound which defines types of PVC and additives and their dosage levels.

The dosage level of ingredients of a material shall not exceed the tolerance bands given in Table 1. If any level exceeds the dosage band or if a type is changed, this variation in formulation constitutes a change in material.

The values of the parts X added to 100 parts by mass of PVC shall be specified by the manufacturer in his quality plan.

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Table 1 — Material specification

Ingredients	Type	Band
PVC resin	K value : ± 3 units	$X_1 = 100$ parts
Type of stabiliser or master batch	Pb Ca-Zn Sn Ca-Sn n) Others	$X_2 : \pm 25 \%$
Lubricants	All	$X_3 : \pm 50\%$ for $X_3 \leq 0,2$ $X_3 : \pm 0,1$ part for $X_3 > 0,2$
Fillers	CaCO ₃ Others	$X_4 : \pm 3$ parts $X_5 : \pm 25\%$
Impact modifiers	All	$X_6 : \pm 1$ part
Flow agents	All	$X_7 : \pm 25\%$ for $X_7 \leq 2$ $X_7 : \pm 0,5$ part for $X_7 > 2$
Pigments	No requirements	-
Others	To be separately specified by the manufacturer	$X_{8,1} : \pm 25 \%$ $X_{8,n} : \pm 25 \%$
External reprocessable and recyclable material	With an agreed specification ¹⁾	$\leq X_9$ ²⁾
External reprocessable and recyclable material	Not covered by an agreed specification	$\leq X_{10}$ ³⁾
¹⁾ The specifications shall be declared by the manufacturer to the certification body. ²⁾ See limitations in A.2.2.2 of EN 1329-1:1999. ³⁾ See limitations in A.2.3.1 of EN 1329-1:1999.		

4.2.2 Grouping

For the purposes of this prestandard the following groups shall apply for TT, PTT, ITT, PVT and AT.

4.2.2.1 Size group

Three size groups, each comprising a group of nominal sizes DN, are designated as follows :

Size group 1 : 32 to 63 ;

Size group 2 : 75 to 180 ;

Size group 3 : 200 to 315.