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| | **Potrubné systémy z plastov na kanalizácie vnútri konštrukcie budov (s nízkou a vysokou teplotou). Termoplasty. Odporúčaný postup inštalovania.** | **TNI CEN/TR 13801**<br><br>64 3241 |

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Thermoplastics - Recommended practice for installation

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TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

# CEN/TR 13801

April 2014

ICS 91.140.80

Supersedes ENV 13801:2000

English Version

# Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Thermoplastics - Recommended practice for installation

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 - Thermoplastiques - Pratiques recommandées pour la pose

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur - Thermoplastische Werkstoffe - Empfehlungen für die Verlegung

This Technical Report was approved by CEN on 1 October 2013. It has been drawn up by the Technical Committee CEN/TC 155.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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# Foreword

This document (CEN/TR 13801:2014) 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 [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes ENV 13801:2000.

The revision mainly consists in changing the status from ENV to CEN/TR and the following minor changes:

a) other materials than PP homopolymer mentioned in 5.1;

b) update of symbols in Clause 3;

c) mention of possible local regulations on fire and acoustics in Clause 4;

d) reference of adhesives standards in 6.4.

This Technical Report is only a guidance document to be used mainly as a basis for preparing more specific manufacturer's instructions. It is associated with standards for piping systems covering a particular thermoplastic material for a specified application. There are a number of such standards.

It is 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 Standardization (ISO).

This Technical Report is consistent with general standards on functional requirements and on recommended practice for installation.

# Introduction

This Technical Report covers the recommended practice for installation of the thermoplastics piping systems for soil and waste discharge. The most important recommendations are expressed by the use of the imperative. These are strongly recommended.

Guidance for installation is presented, e.g. by the use of “may” or “is recommended”, for consideration as a matter of judgement in each case.

# 1 Scope

This Technical Report gives the recommended practice for installation of thermoplastics piping systems in the field of soil and waste discharge (low and high temperature) inside buildings (marked with “B”) and of soil and waste discharge systems for both inside buildings and buried in ground within the building structure (marked with “BD”).

This Technical Report provides material dependent installation techniques but it is important that the general installation practice as given in the relevant parts of EN 12056 for B application are taken into account in manufacturer's instructions, subject to any applicable national and/or local regulations.

This Technical Report is applicable to thermoplastics pipes and fittings as specified in the associated standards EN 1329-1 [1] (PVC-U), EN 1451-1 [2] (PP), EN 1453-1 [3] (PVC-U with structured-wall pipes), EN 1455-1 [4] (ABS), EN 1519-1 [5] (PE), EN 1565-1 [6] (SAN+PVC) and EN 1566-1 [7] (PVC-C), their joints and to joints with components of other plastics and non-plastics materials intended to be used for the following purposes:

a) soil and waste discharge pipework for the conveyance of domestic waste waters (low and high temperature);

NOTE 1 See Clause 4 for waste discharge temperature limits.

b) ventilating pipework associated with a);

c) rainwater pipework within the building structure (see Figure 1, key 16).

It is applicable to pipes and fittings, marked with “B”, which are intended to be used above ground only, and to pipes and fittings, marked “BD”, which are intended to be used above and buried in ground within the building structure.

NOTE 2 Only those components as specified in the relevant associated standard with nominal outside diameters equal to or greater than 75 mm (marked with “BD”) are intended for use buried in ground within the building structure. The term “within building structure” covers all gravity discharge pipework within a building, including the elements installed below the slab and buried in the ground.

If specified in the relevant associated standard, this Technical Report also covers soil and waste discharge pipework fixed externally onto the building (see Figure 1, key 17). It is not applicable to pipework that passes under the building without any connection from the discharge system.

NOTE 3 According to the associated standards, for external above ground soil and waste discharge, additional requirements depending on the climate, will be agreed between the manufacturer and the user.

According to the associated standards, components conforming to other standards on plastic piping systems may be used with pipes and fittings conforming to a given associated standard, if they conform to the requirements for joint dimensions and functional requirements of the given associated standard.

# 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12056-1:2000, *Gravity drainage systems inside buildings - Part 1: General and performance requirements*

EN 12056-2:2000, *Gravity drainage systems inside buildings - Part 2: Sanitary pipework, layout and calculation*

EN 12056-3:2000, *Gravity drainage systems inside buildings - Part 3: Roof drainage, layout and calculation*

EN 12056-5, *Gravity drainage systems inside buildings - Part 5: Installation and testing, instructions for operation, maintenance and use*

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