



National Standards Authority of Ireland

IRISH STANDARD

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**PLASTICS PIPING SYSTEMS FOR SOIL AND
WASTE DISCHARGE (LOW AND HIGH
TEMPERATURE) WITHIN THE BUILDING
STRUCTURE - POLYETHYLENE (PE) - PART 1:
SPECIFICATIONS FOR PIPES, FITTINGS AND
THE SYSTEM**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

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ICS

Descriptors: plastics, thermoplastics, polyethylene (PE), piping, soil and waste, discharge, pipes, fittings, system, specifications

English version

**Plastics piping systems for soil and waste discharge
(low and high temperature) within the building structure –
Polyethylene (PE) –
Part 1: Specifications for pipes, fittings and the system**

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 du bâtiments – Polyéthylène (PE) –
Partie 1: Spécifications pour tubes, raccords ainsi que pour le système

Kunststoff-Rohrleitungssysteme zum Ableiten von Abwasser (niedriger und hoher Temperatur) innerhalb der Gebäudestruktur – Polyethylen (PE) –
Teil 1: Anforderungen an Rohre, Formstücke und das Rohrleitungssystem

This European Standard was approved by CEN on... .

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

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

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2000, and conflicting national standards shall be withdrawn at the latest by July 2001.

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

This European Standard is one Part of EN 1519 for plastics piping systems in the field of soil and waste discharge (low and high temperature) within the building structure made of polyethylene (PE), which consists of the following parts:

Part 1: Specifications for pipes, fittings and the system
Part 2: Guidance for the assessment of conformity.

Following a decision of CEN/TC 155 after the CEN enquiry, this Part 1 is the result of merging of the following parts of the draft standard prEN 1519:

Part 1: General (published for CEN enquiry as prEN 1519-1);
Part 2: Pipes (published for CEN enquiry as prEN 1519-2);
Part 3: Fittings (published for CEN enquiry as prEN 1519-3);
Part 5: Fitness for purpose of the system (published for CEN enquiry as prEN 1519-5).

Part 6: Recommended practice for installation (published for CEN enquiry as prEN 1519-6) is intended to be included in a merged document for the recommended practice for installation of plastics piping systems in the field of soil and waste discharge (low and high temperature) within the building structure. For this document the type of publication as European Prestandard (ENV) was approved by the CEN members.

For Part 7: Assessment of conformity (published for CEN enquiry as prEN 1519-7) the type of publication as European Prestandard (ENV) 1519-2 "Assessment of conformity" was approved by the CEN members.

This standard series 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).

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

This Part of EN 1566 includes the following annex:

– Annex A (informative): General characteristics of PE pipes and fittings

1 Scope

This European Standard specifies the requirements for pipes, fittings and the system of polyethylene (PE) solid-wall piping systems in the field of soil and waste discharge

- inside buildings (marked with "B") and
- for both inside buildings and buried in ground within the building structure (marked with "BD").

NOTE 1: The application area "inside buildings" according to this standard, applies to the interior area of the building only. The application area "within the building structure" conforms to the requirements for "inside buildings" according to prEN 12056-1.

It also specifies the test parameters for the test methods referred to in this standard.

This standard is applicable to PE pipes and fittings, 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);
- b) ventilation pipework associated with a);
- c) rainwater pipework within the building structure.

It applies to pipes and fittings, marked with "B", which are intended to be used inside buildings and outside buildings fixed onto the wall.

It applies to pipes and fittings, marked with "BD", which are intended to be used for both inside buildings and buried in ground within the building structure.

NOTE 2: Only components (marked with "BD") are generally to be used buried in ground within the building structure with a nominal ring stiffness of at least SN 4 and nominal outside diameters equal to or greater than 75 mm.

NOTE 3: Pipes and fittings of the pipe series S 16 are intended to be used for application area "B" only.

This standard is applicable to PE pipes and fittings of the following types:

- plain-ended;
- with integral elastomeric ring seal socket;
- for butt fusion joints;
- for electrofusion joints;
- for mechanical joints,

whereby the fittings can be manufactured by injection-moulding or can be fabricated from pipes and/or mouldings.

NOTE 4: Components conforming to any of the Product Standards listed in clause bibliography can be used with pipes and fittings conforming to this standard, provided they conform to the requirements for joint dimensions and to the functional requirements given in this standard.

This standard covers a range of nominal sizes, a range of pipe series and gives recommendations concerning colours.

NOTE 5: It is the responsibility of the purchaser or specifier to make the appropriate selections from these aspects, taking into account their particular requirements and any relevant national regulations and installation practices codes.

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