

ICS 83.140.30

CCS G 33



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 37862-2019

Plastics pipes used for pipeline rehabilitation - General

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the classification and design information using the ISO 11295.2017 "new and replacement plastic piping system.

And application.

This standard has more structural adjustments than ISO 11295.2017. This standard and ISO 11295.2017 are listed in Appendix A.

The chapter number is compared to the list.

There are technical differences between this standard and ISO 11295.2017, and the terms involved in these differences have been passed through the margins on the outer side of the page.

The vertical single line (|) is marked, and a list of the corresponding technical differences and their causes is given in Appendix B.

This standard also made the following editorial changes.

--- Change the standard name to "General Rules for Plastic Pipes for Excavation Repair";

---6.3, 6.4, 6.5, 6.7, 6.10 added "notes" to clarify the close cooperation, so that the description of the work method is more clear;

--- Adjusted the reference.

1 Scope

This standard specifies the terms and definitions of a non-excavation repair plastic pipe, abbreviations, pipe repair technology classification, update technology classification, non-

Excavation replacement technology classification, impact design factors and construction influencing factors.

This standard applies to the use of plastic pipes, fittings and auxiliary parts to underground rainwater, sewage, water supply pipes and gas pipeline networks (including pressure and non-

Pressure piping) Optimization, design and construction of new or non-excavation replacement methods.

Note 1. This standard does not include all technologies used for pipe network construction; this standard does not involve the calculation method of pipe repair material usage.

Note 2. It is the responsibility of the designer to properly select the non-excavation update and replacement technology.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1844.1-2008 Plastic symbols and abbreviations - Part 1. Basic polymers and their characteristic properties (ISO 1043-1.

2001, IDT)

GB/T 13663.1-2017 Polyethylene (PE) piping systems for water supply - Part 1. General (ISO 4427-1.2007, MOD)

GB/T 13663.2-2018 Polyethylene (PE) piping systems for water supply - Part 2. Pipes (ISO 4427-2.2007, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 General terminology

3.1.1

Non-excavation trenchless

All techniques and methods for laying, detecting and repairing buried pipelines without excavation or micro-excavation (3.1.2).

3.1.2

Repair rehabilitation

Techniques and methods for restoring or upgrading the performance of the original piping

system (3.1.3), maintenance (3.1.4), and replacement (3.1.5).

3.1.3

Update renovation

Techniques and methods for improving the performance of all or part of the original pipeline structure.

3.1.4

Repair repair

Restoration of local damage to the pipeline.

3.1.5

Replacement

A new technique and method for replacing the pipeline of its function in the original or ectopic position of the original pipeline.