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

GB/T 11836-2023

Replacing GB/T 11836-2009

Concrete and reinforced concrete sewer pipes

混凝土和钢筋混凝土排水管

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting: This document replaces GB/T 11836-2009 "Concrete and Reinforced Concrete Drainage Pipes": In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The range of product specifications in Table 2 has been changed, the nominal inner diameter has been increased to 4000mm, the minimum design wall thickness of all levels of pipes has been unified, and The external pressure load inspection index of some pipes has been changed (see Table 2, Table 2 of the:2009 edition);
- b) The D-type type of steel socket pipe with flexible interface is added (see 4:1:4);
- c) Added requirements for interface sealing materials (see 5:1:8);
- d) The material requirements for backing plates are added (see 5:1:9);
- e) Increased concrete mix design, impermeability and quality control requirements (see 5:2);
- f) Added the requirements for dimensional deviation in the manufacture of reinforcement skeletons (see 5:3:8);
- g) The requirements for the manufacture of steel sockets have been added (see 5:4);
- h) Added requirements for the manufacture of embedded parts (see 5:5);

- i) Added pipe fabrication requirements (see 5:6);
- j) Added anti-corrosion requirements for steel parts and pipes (see 5:7);
- k) Added the requirements on the compression rate and circumference of the rubber sealing ring (see 5:8);
- l) The requirements for the concrete strength grade have been changed, and the requirements for the compressive strength of the concrete at the time of delivery have been added (see 6:1, 6:1 of the:2009 edition);
- m) Added requirements for water absorption of pipe concrete (see 6:7);

1 Scope

GB/T 11836-2023 is the Chinese national standard on concrete and reinforced concrete sewer pipes, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 17 March 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 October 2023. Classification: ICS 91.100.30, CCS Q14. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification and marking of concrete and reinforced concrete drainage pipes (hereinafter referred to as pipes), general provisions, technical requirements, test inspection methods, inspection rules, signs, transportation and storage, and product certificates: This document applies to pipes used for gravity flow pipelines such as rainwater, sewage, water diversion and farmland drainage and irrigation: Production of other purposes (such as comprehensive pipe gallery, floor Pipelines, pipelines, tunnels, etc.) can be implemented with reference to this document: This document is applicable to pipes used in construction methods such as grooving and jacking:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB 175 General Portland cement

GB/T 748 Sulfate Resistant Portland Cement GB/T 1499:

1 Steel for reinforced concrete Part 1: Hot-rolled plain round steel bar GB/T 1499:

3 Polymer waterproof materials - Part 3: Water-swellaable rubber

GB/T 20472 sulphoaluminate cement

GB 50010 Code for Design of Concrete Structures

GB/T 50046 Anti-corrosion Design Standards for Industrial Buildings

GB/T 50081 Standard for Test Methods of Physical and Mechanical Properties of Concrete

GB/T 50082-2009 Standard for test methods of long-term performance and durability of ordinary concrete

GB/T 50107 Concrete Strength Inspection and Evaluation Standard

GB 50164 Concrete Quality Control Standard

GB 50204 Code for Acceptance of Construction Quality of Concrete Structure Engineering

GB 50212 Construction Code for Anti-corrosion Engineering of Buildings

GB/T 50476 Durability Design Standards for Concrete Structures

GB 55008 General Specification for Concrete Structures