

ICS 83.140.30

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

GB/T 45644-2025

**Test method for resistance against surface and traffic loading
of the thermoplastics inspection chamber**

热塑性塑料检查井抗地面和交通负荷性能试验方法

(English Translation)

Issued on: April 25, 2025

Implemented on: November 1, 2025

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

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Principle
- 5 Experimental equipment

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 is modified to adopt ISO 13266:2022 "Inspection wells and manholes for thermoplastic pipe systems for non-pressure buried drainage and sewage treatment" Determination of the resistance of thermoplastic shafts to ground and traffic loads.

Compared with ISO 13266:2022, this document has many structural adjustments. Comparison table of structural number changes between the two documents See Appendix A. This document has many technical differences compared to ISO 13266:2022.

A list of these technical differences and their causes is given in Appendix B. The following editorial changes were made to this document.

--- Change the name of the standard to "Test method for resistance of thermoplastic manholes to ground and traffic loads" to conform to domestic industry practices;

--- Deleted the note in Chapter 1 of ISO 13266:2022;

--- Deleted footnotes a and c in Table 1 of ISO 13266:2022.

1 Scope

This document describes the thermoplastic manhole upper assembly (usually including the shaft, offset end, expansion joint and pressure ring) and traffic load performance test methods.

This document applies to the testing of the resistance of thermoplastic manhole upper assemblies to ground and traffic loads.

This document is not applicable to the testing of thermoplastic manhole covers and cover

bases.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the latest version (including all amendments) applies to this document. This document.

GB/T 23858 Inspection well cover

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Principle

The test component is buried in the test box (or buried according to the on-site conditions) and load is applied (see Figure 1). During the loading process, the manhole cover or its After the test is completed, check the appearance and defects of the upper assembly.

Other documents that reference this document may use the following test conditions different from those specified in this document.

- a) Number of samples (see Chapter 6);
- b) Maximum load (see Chapter 9);
- c) Type of backfill material (see Chapter 9);
- d) Compactness of backfill material (see Chapter 9).

5.1 Test chamber

The test chamber should be large enough to accommodate the test component and should be at least 0.3 m away from all sides of the plastic component.

It should be vertical and smooth, and the structure and strength of the test box should ensure that the deformation of any point of the test box during the test should not exceed 3mm.

5.2 Loading device

The required load can be applied to the middle of the manhole cover and can maintain a constant load for at least 15 minutes. The loading plate for applying the load should meet