



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

**GB/T 17466.23-2022**

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**Boxes and enclosures for electrical accessories for household  
and similar fixed electrical installations - Part 23: Particular  
requirements for floor boxes and enclosures**

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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 of Standardization Documents" drafted.

This document is part 23 of GB/T 17466 "Installation Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations".

GB/T 17466 has released the following parts.

--- Part 1. General requirements;

--- Part 2. Special requirements.

\* Part 21. Particular requirements for mounting boxes and enclosures for suspension devices;

\* Part 22. Particular requirements for connection boxes and enclosures;

\* Part 23. Particular requirements for ground-mounted boxes and enclosures;

\* Part 24. Particular requirements for enclosures of residential protection devices and other power-consuming electrical appliances.

This document replaces GB/T 17466.23-2008 "Installation boxes and enclosures of electrical accessories for household and similar fixed electrical installations

Part 23. Particular requirements for ground-mounted boxes and enclosures, compared with GB/T 17466.23-2008, except for structural adjustments and editorial changes

In addition, the main technical changes are as follows.

--- Changed the description of the scope of application of the document (see Chapter 1, Chapter 1 of the 2008 edition);

---Added that 7.8 of GB/T 17466.1-2019 does not apply to the requirements of this document (see 7.8);

--- Increased the test requirements for openings through cable channels for connecting equipment (see 12.101);

--- Added the requirement that there should be no water in the box or shell after the test (see 13.3.101);

--- Added the requirement that the cover should not be damaged (see 15.101).

This document is modified to adopt IEC 60670-23:2016 "Installation boxes and enclosures of electrical accessories for fixed electrical installations for household and similar purposes.

Part 23.Particular requirements for ground-mounted boxes and enclosures.

The technical differences between this document and IEC 60670-23:2016 and their reasons are as follows.

---Added "This document specifies the marking, protection against electric shock, structure, mechanical properties, electrical properties and other technical aspects of ground-mounted boxes and enclosures.

Technical requirements", in order to comply with the provisions of GB/T 1.1.

The following editorial changes have been made to this document.

--- The entry number 3.106 of the terms and definitions in Chapter 3 is changed to 3.101, 3.107 is changed to 3.102, and 3.108 is changed to 3.103.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

## Introduction

GB/T 17466 aims to standardize the technical requirements for the installation boxes and enclosures of electrical accessories for household and similar fixed electrical installations.

The safe use of certified products is intended to consist of the following parts.

--- Part 1.General requirements. The purpose is to specify electrical accessory boxes and enclosures for household and similar fixed electrical installations.

General requirements for shell structure, mechanical properties, electrical properties, etc.

--- Part 21.Particular requirements for mounting boxes and enclosures for suspension devices. The purpose is to specify the mounting box for the suspension device

And the technical requirements of anti-shock protection, structure, mechanical properties and electrical properties of the shell.

--- Part 22. Particular requirements for connection boxes and enclosures. The purpose is to specify the protection against electric shock, structure, mechanical

performance, electrical performance and other technical requirements.

--- Part 23. Particular requirements for ground-mounted boxes and enclosures. The purpose is to specify the protection against electric shock of ground-mounted boxes and enclosures,

Technical requirements for structure, mechanical properties, electrical properties, etc.

--- Part 24. Particular requirements for enclosures of residential protection devices and other power-consuming electrical appliances. The purpose is to specify residential protective equipment

Technical requirements such as protection against electric shock, structural requirements, mechanical properties, and electrical properties of enclosures and other power-consuming electrical appliances.

This document can provide guidance for the production of ground-mounted box and enclosure products, improve the technical performance and safety and reliability of products, and protect people

Electricity safety for the public.

Household and similar fixed electrical installations

Electrical Accessory Mounting Boxes and Enclosures Part 23.

Special requirements for ground mount boxes and enclosures

## 1 Scope

This document specifies the technical requirements for the marking, protection against electric shock, structure, mechanical properties, and electrical properties of ground-mounted boxes and enclosures.

This chapter of GB/T 17466.1-2019 shall apply after adding the following contents.

Add after the fourth paragraph.

This document applies to mounting boxes and enclosures.

Concealed floor mount boxes and concealed floor enclosures are intended to protect accessories from load pressures not greater than 1000N.

Note. Outdoor requirements are under consideration.

## 2 Normative references

This chapter of GB/T 17466.1-2019 applies.

### 3 Terms and Definitions

This chapter of GB/T 17466.1-2019 applies to this document after adding the following terms and definitions.

#### 3.101

Loaded and renovated floors with or without covering materials such as carpet, tile, vinyl or wood.

#### 3.102

Dry treatment of floor drytreatmentoffloor

Treat the ground with no liquid or only a small amount of liquid applied and sprayed in such an amount that silt will not form and the floor covering will not

A process of cleaning and/or maintenance that occurs wet.

NOTE. Examples of dry treatments are. sweeping with a broom or carpet cleaner, vacuuming, brushing with dry cleaning powder, dry cleaning, wet cleaning

Carpet wash, treat with a cleaning carrier (use a solid material as a carrier for liquid chemical cleaners, e.g. wet sawdust, wet cloth, etc.)

#### 3.103

Wet treatment of the floor

Use liquid cleaning to treat the floor, it is not ruled out that the liquid has formed a deposit, and the floor covering will be soaked for a period of time for cleaning and/or

maintenance process.

Note. Examples of ground wet treatment are. wet scrubbing, manual or machine wiping.

### 4 General requirements

This chapter of GB/T 17466.1-2019 applies.