

ICS 13.100
CCS 68



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

GB 4053.3-2025

Replacing GB 4053.3-2009

**Safety requirements for fixed metal ladders and platform - Part
3: Industrial guardrails and platform**

固定式金属梯及平台安全要求 第3部分：工业防护栏杆及平台

Issued on: December 31, 2025

Implemented on: January 1, 2027

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 3 of GB 4053 "Safety Requirements for Fixed Metal Ladders and Platforms". GB 4053 has published the following parts.

1.Straight Elevator;

2.Inclined Staircase;

3.Industrial guardrails and platforms. This document supersedes GB 4053.3-2009 "Safety Requirements for Fixed Steel Ladders and Platforms Part

3.Industrial Guardrails and Steel Platforms". Compared with GB 4053.3-2009, the main technical changes in this document, apart from structural adjustments and editorial modifications, are as follows:

---The scope has been changed (see Chapter 1, Chapter 1 of the.2009 edition);

---The requirements for guardrail and kickboard installation have been changed (see 4.2, 4.1 in the.2009 version);

---The material requirements have been changed (see 4.3, 4.2 in the.2009 edition);

---The requirements for guardrail loads have been changed (see 4.4, 4.3 in the.2009 edition);

---The platform load requirements have been changed (see 4.5,

1 Scope

GB 4053.3-2025 is the Chinese national standard on safety requirements for fixed metal ladders and platform - part 3: industrial guardrails and platform, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 13.100, CCS 68. 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 general requirements for fixed industrial guardrails and platforms, the structural requirements for guardrails, the structural requirements for platforms, and the requirements for doors, etc. Instructions for use and warning information requirements. This document applies to the design, manufacture, and installation of fixed metal guardrails and platforms used in workplaces within industrial enterprises. This document does not apply to fixed protective structures installed on nuclear facilities, ships, lifting machinery, transmission towers, mast-type towers, communication towers, or

meteorological towers. Railings and platforms.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 2894 Safety Colors and Safety Signs

GB/T 50046 Standard for Corrosion Protection Design of Industrial Buildings

GB 50057 Code for Design of Lightning Protection of Buildings

GB 50205 Standard for Acceptance of Construction Quality of Steel Structures

GB 50576 Standard for Acceptance of Construction Quality of Aluminum Alloy Structures

GB/T 51082 Code for Design of Coating for Industrial Buildings

GB 55006 General Specification for Steel Structures

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 guardrail Permanently installed on inclined ladders (3.17), platforms (3.9), lifts or other open edges to prevent people from falling (see Figure 1).

3.2 top rail A handle (see 1 in Figure 1) is installed at the top of the guardrail (3.1) for people to hold or climb.

3.3 handrail A bar for people to hold onto or climb, installed on the top of the guardrail (3.1) or on the side of the ramp (3.17) or access platform (3.12). Note

1.The top crossbar (3.2) of the platform (3.9), the lifting port or other open edge guardrail (3.1) also serves as a handrail. Note

2.When the height of the top horizontal bar (3.2) of the guardrail (3.1) of the inclined ladder (3.17) does not exceed 1200mm, the top horizontal bar (3.2) also serves as a handrail.

3.4 Intermediate rail Below the top crossbar (3.2), there is a protective bar (see 2 in Figure 1a).