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

GB 4053.2-2025

Replacing GB 4053.2-2009

**Safety requirements for fixed metal ladders and platform - Part
2: Inclined ladders**

固定式金属梯及平台安全要求 第2部分：斜梯

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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 2 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 4053.2-2009 "Safety Requirements for Fixed Steel Ladders and Platforms - Part

2.Steel Inclined Ladders". This document is consistent with... Compared with GB 4053.2-2009, apart from structural adjustments and editorial changes, the main technical

changes are as follows:

- The scope has been changed (see Chapter 1, Chapter 1 of the.2009 edition);
- The content regarding the angle of inclination and the height of the stair flight has been modified (see 4.1, 5.1 in the.2009 version);
- The material requirements have been changed (see 4.2, 4.1 in the.2009 edition);
- The load requirements have been changed (see 4.3,.2009 version 4.3);
- The manufacturing and installation requirements have been changed (see 4.4,.2009 version 4.4);
- The requirements for corrosion protection have been changed (see 4.5,.2009 version 4.5);

1 Scope

GB 4053.2-2025 is the Chinese national standard on safety requirements for fixed metal ladders and platform - part 2: inclined ladders, 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 C 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, structural requirements, and usage instructions for fixed metal inclined stairs (hereinafter referred to as "inclined stairs"). Minghe warning information requirements. This document applies to the design, manufacture, and installation of fixed metal ramps used in workplaces within industrial enterprises. This document does not apply to fixed metal ramps installed on nuclear facilities, ships, lifting machinery, or transmission towers.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. 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 4053.3-2025 Safety requirements for fixed metal ladders and platforms - Part

3 Terms and Definitions

The terms and definitions defined in GB 4053.3 and the following terms and definitions apply to this document.

3.1 Inclined ladder Metal step ladders that are permanently installed on building structures or equipment with an inclination angle greater than 20° and less than or equal to 75° (see Figure 1).

3.2 Spiral staircase The fan-shaped treads are arranged around a metal support column, and the horizontal projection is circular. The slope line (3.3) is a spiral inclined ladder (3.1) (see Figure 2).

3.3 slope line An imaginary line formed by the same-side endpoints of the protrusions (3.7) of adjacent treads (3.6) in a stair flight (3.11) (see p in Figure 1).

3.4 angle of pitch The angle between the slope line (3.3) or its tangent and the horizontal plane (see alpha in Figure 1).