



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

GB/T 17888.3-2020

**Safety of machinery. Permanent means of access to machinery
- Part 3: Stairs, stepladders and guard-rails**

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Foreword

GB/T 17888 Safety of Machinery - Permanent Means of Access to Machinery constitutes the

following four parts:

- Part 1: Choice of a Fixed Means and General Requirements of Access;
- Part 2: Working Platforms and Walkways;
- Part 3: Stairs, Stepladders and Guard-Rails;
- Part 4: Fixed Ladders.

This Part is Part 3 of GB/T 17888.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 17888.3-2008 Safety of Machinery - Permanent Means of Access to

Machinery - Part 3: Stairs Stepladders and Guard-Rails. Compared with GB/T 17888.3-2008,

the major technical changes of this Part can refer to Annex A.

This Part used translation method to equivalently adopt ISO 14122-3:2016 Safety of Machinery

- Permanent Means of Access to Machinery - Part 3: Stairs Stepladders and Guard-Rails.

The Chinese documents that have a consistent correspondence with the international documents

normatively cited in this part are as follows:

--- GB/T 15706-2012 Safety of Machinery - General Principles for Design - Risk Assessment and Risk Reduction (ISO 12100:2010, IDT)

--- GB/T 17888.1-2020 Safety of Machinery - Permanent Means of Access to Machinery - Part 1: Choice of Fixed Means and General Requirements of Access (ISO 14122-1:2016, IDT)

This Part made the following editorial modifications:

--- Correct the editorial error in 4.1: and change the second column item b) to NOTE;

--- Correct editorial error in Table 1: and change " $60^{\circ} \leq \alpha \leq 75^{\circ}$ " to " $60^{\circ} < \alpha \leq 75^{\circ}$ ";

--- Correct the numbering errors of sub-clauses 8.2.1.1~8.2.1.3 of "8.2.2 Load" and "8.2.2 Test Procedure" and its sub-clauses.

This Part was proposed by and under the jurisdiction of National Technical Committee on Mechanical Safety of Standardization Administration of China (SAC/TC 208).

Drafting organizations of this Part: Yancheng STG Safety Equipment Co., Ltd.; Zhangjiagang

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Safety of Machinery - Permanent Means of Access to

Machinery - Part 3: Stairs, Stepladders and Guard-Rails

1 Scope

This Part of GB/T 17888 gives requirements for non-powered stairs, stepladders and guard-rails which are a part of a stationary machine, and to the non-powered adjustable parts (e.g.,

foldable, slidable) and movable parts of those fixed means of access.

NOTE 1: "Fixed" means of access are those mounted in such a manner (for example, by screws, nuts,

welding) that they can only be removed by the use of tools.

This Part specifies minimum requirements that also apply when the same means of access is

required as the part of the building or civil construction (e.g., stairs, stepladders, guard-rails) where the machine is installed, on condition that the main function of that part of the construction is to provide a means of access to the machine.

NOTE 2: Where no local regulation or standards exists, this part of ISO 14122 may be used also for

means of access which are outside the scope of the standard.

It is intended that this Part be used with GB/T 17888.1 to give the requirements for steps, stepladders, and guard-rails.

The GB/T 17888 series as a whole is applicable to both stationary and mobile machinery where

fixed means of access are necessary. It is not applicable to powered means of access such as

lifts, escalators, or other devices specially designed to lift persons between two levels.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the

undated documents, only the latest version (including all the amendments) is applicable to this

document.

ISO 12100 Safety of Machinery - General Principles for Design - Risk Assessment and Risk Reduction

ISO 14122-1:2016 Safety of Machinery - Permanent Means of Access to Machinery - Part 1: Choice of Fixed Means and General Requirements of Access

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