



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

**GB/T 17888.4-2020**

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**Safety of machinery. Permanent means of access to machinery  
- Part 4: Fixed ladders**

**Issued on: November 19, 2020**

**Implemented on: June 1, 2021**

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**Issued by: SAMR; SAC**

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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 4 of GB/T 17888.

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

This Part replaced GB/T 17888.4-2008 Safety of Machinery - Permanent Means of Access to

Machinery - Part 4: Fixed Ladders. Compared with GB/T 17888.4-2008, the major technical changes of this Part can refer to Annex C.

This Part used the translation method to equivalently adopt ISO 14122-4:2016 Safety of Machinery - Permanent Means of Access to Machinery - Part 4: Fixed Ladders.

The Chinese documents that have 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)
- GB/T 17888.2-2020 Safety of Machinery - Permanent Means of Access to Machinery - Part 2: Working Platforms and Walkways (ISO 14122-2:2016, IDT)
- GB/T 17888.3-2020 Safety of Machinery - Permanent Means of Access to Machinery - Part 3: Stairs, Stepladders and Guard-Rails (ISO 14122-3:2016, IDT)

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

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Products Co., Ltd.; Ningguo Dongfang Grinding Materials Co., Ltd.; Zhejiang Aopeng Industry and Trading Co., Ltd.; Zhengzhou Guizhu Industry and Trading Co., Ltd.; Yancheng STG Safety Equipment Co., Ltd.; China Productivity Center for Machinery; Tianjin Jinmao Group  
Safety of Machinery - Permanent Means of Access to Machinery - Part 4: Fixed Ladders

## 1 Scope

This Part of GB/T 17888 gives requirements for fixed ladders which are a part of a stationary machine, and to the non-powered adjustable parts (e.g., foldable, slidable) and movable parts of fixed ladder systems.

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. fixed ladders) 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 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 fixed ladder systems.

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

ISO 14122-2:2016 Safety of Machinery - Permanent Means of Access to Machinery - Part 2: Working Platforms and Walkways

ISO 14122-3:2016 Safety of Machinery - Permanent Means of Access to Machinery - Part 3: Stairs, Stepladders and Guard-Rails

EN 353-1:2014 Personal Fall Protective Equipment - Guided Type Fall Arresters

Including an Anchor Line - Part 1: Guided Type Fall Arresters Including a Rigid Anchor Line

EN 795 Personal Fall Protection Equipment - Anchor Devices

## 3 Terms and Definitions

For the purposes of this document, the terms and definitions given in ISO 12100, ISO 14122-1,

and the following apply.

### 3.1 Fixed ladder system/ladder system/fixed ladder

Installation of at least one ladder flight (3.4), fall protection (3.7), where appropriate, as well as

landing(s) and/or platform(s).