

ICS 13.100

C 68



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

中华人民共和国国家标准

GB 4053.2-2009

Replace GB 4053.2-1993

**Safety requirements for fixed steel ladders and
platform—Part 2: Steel inclined ladders**
固定式钢梯及平台安全要求
第 2 部分：钢斜梯

Issued on March 31, 2009

Implemented on December 1, 2009

**Issued by General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China and Standardization
Administration of the People's Republic of China**

Contents

Foreword	1
1 Scope	3
2 Normative references	3
3 Terms and definitions	3
4 General requirements	6
5 Structure requirements	8

Foreword

This part except for Chapter 3 is mandatory.

GB 4053 *Safety Requirements for Fixed Steel Ladders and Platform* can be divided into the following several parts:

- GB 4053.1 Fixed vertical ladders;
- GB 4053.2 Fixed inclined ladders;
- GB4053.3 Industrial protective railings and steel platforms.

This is Part 2 for GB 4053 *Safety Requirements for Fixed Steel Ladders and Platform*.

Part 2 is the revision for GB 4053.2-1993 *Safety Technical Specifications for Fixed Steel inclined Ladders*.

This Part, in comparison with GB 4053.2-1993, mainly has the following changes:

- Modified the requirements for the material;
- Added requirements and recommendations for angle of pitch of steel inclined ladders;
- Added formulation requirements for combination relation between rise and going;
- Parts of provisions of the design load are revised and requirements for handrail pillar and middle rail load are added.
- Modified the requirements for rust protection and anti-corrosion;
- Added requirements for protection grounding of thunder and lightning prevention;
- Modified the requirements for ladder height;
- Modified the dimensional requirements for inside clear width of the ladder;
- Requirements for depth size before and after the tread and provisions of overlapping size are added.
- Added the requirements for upper space of the ladder;
- Added the requirements for tread spacing;
- Modified anti-skid requirements for the tread, allowing to use of anti-skid flange;
- Added structural requirements of stile at the bottom of the ladder;
- Added stipulations for the conditions and form for setting up ladder handrail;
- Modified the requirements for the handrail height;

- Added requirements for the minimum space around the handrail;
- Added dimensional requirements for handrail by using non-circular section

This part is proposed by State Administration of Work Safety.

The Part is under jurisdiction of the National Security Standardization Technical Committee.

Unit which is responsible for drafting this Part: Jilin Academy of Safety Science & Technology, Changchun University of Technology, Changchun Institute of Technology.

Main drafters of this Part: Xiao Jianmin, Zheng Fanying, Han Lianying, Qu Sheng, Sun Wei.

The release condition of previous versions of the Standards replaced by this Part is as follows:

- GB 4053.2-1983
- GB 4053.2-1993

Safety requirements for fixed steel ladders and platform—Part 2: Steel inclined ladders

1 Scope

This part sets rules on the primary safety requirements for the design, manufacture and installation of fixed steel inclined ladders.

This part will apply to fixed steel inclined ladders used in workplace within industrial enterprises (except as otherwise stipulated by standards).

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 4053.3 Safety requirements for fixed steel ladders and platform - Part 3: Industrial guardrails and steel platform

GB 50057 Design Code for Protection of Structures against Lightning

GB 50205 Code for Acceptance of Construction Quality of Steel Structures

3 Terms and definitions

For the purpose of this part, the following terms and definitions apply.

3.1

Fixed steel inclined ladder

The tread steel ladder is permanently installed in buildings or equipment, with horizontal plane into 30°-75° angle (see Figure 1).

3.2

Stile (rail)

Ladder side components are used to install tread or other transversal bearings.

3.3

Tread (step)

Transversal bearings of the ladder, depth between front and rear not less than 80mm, are

完整版本请在线下单/Order Checks Online for Full Version

联系我们/or Contact :

TEL: 400-678-1309

QQ: 19315219 | Skype: Lancarver

Email : info@lancarver.com

<http://www.lancarver.com>

线下付款方式 :

I. 对公账户 :

单位名称 : 北京文心雕语翻译有限公司

开户行 : 中国工商银行北京清河镇支行

账 号 : 0200 1486 0900 0006 131

II. 支付宝账户 : info@lancarver.com

III. Paypal: info@lancarver.com

注: 付款成功后, 请预留电邮, 完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱, 如需索取发票, 下单成功后的三个工作日内安排开具并寄出, 预祝合作愉快!

NOTE All documents on the store are in electronic Adobe Acrobat PDF format, there is not sell or ship documents in hard copy. Mail the order and payment information to info@lancarver.com, you will shortly receive an e-mail confirming your order.

