

ICS 97.220.30

CCS Y 55



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

GB 17498.2-2008

Replacing GB 17498.2-2008

**Indoor stationary training equipment - Part 2: Strength training
equipment - Additional specific safety requirements and test
methods**

(English Translation)

Issued on: March 31, 2026

Implemented on: October 1, 2027

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface	
Introduction	
1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Classification	4
5 Safety Requirements	4
6.Test Methods	12
7 Test Report	14
Reference	15

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/T 17498 "Indoor Fixed Fitness Equipment". GB/T 17498 has already published the following parts.

- Part 1.General safety requirements and test methods;
- Part 2.Additional Special Safety Requirements and Test Methods for Strength Training Equipment;
- Part 4.Additional Special Safety Requirements and Test Methods for Strength Training Benches;
- Part 5.Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment;
- Part 6.Additional Special Safety Requirements and Test Methods for Treadmills;
- Part 7.Additional Special Safety Requirements and Test Methods for Rowing Machines;
- Part 8.Additional special safety requirements and test methods for steppers, stair climbers and mountaineering machines;
- Part 9.Additional Special Safety Requirements and Test Methods for Elliptical Trainers;

---Part 10.Additional special safety requirements and test methods for exercise bikes with fixed wheels or without flywheels.

This document replaces GB 17498.2-2008 "Fixed Fitness Equipment - Part 2.Additional Special Safety Measures for Strength Training Equipment".

Compared with GB 17498.2-2008, the main technical changes in the "Requirements and Test Methods" are as follows, except for structural adjustments and editorial modifications.

---Added "Terms and Definitions" section (see Chapter 3);

---Stability requirements have been added (see 5.1), and the general rules regarding safety requirements (5.1 in the.2008 edition) have been removed;

---The safety requirements for the load have been changed (see 5.2,.2008 version 5.2), and training counterweights, storage counterweights, and guide rails have been added.

The load requirements for the movement stop components of the equipment are specified in section 5.2.

---The durability safety requirements have been revised (see 5.3,.2008 version 5.3), adding provisions for boom-driven equipment and rail-mounted equipment.

Durability requirements for moving stop components and drop limit components of guide rail equipment (see 5.3);

---Safety requirements for easily accessible compression and/or shear points have been changed (see 5.4,.2008 version 5.4), and several compounding devices have been added.

Safety requirements for the clearance between the protective cover and the counterweight plate of the external load (see 5.4);

---Added safety requirements for preventing the counterweight plate from slipping off (see 5.5), and removed the safety requirements for the counterweight plate (see 5.5 in the.2008 edition);

---Added safety requirements for entry/exit and release mechanisms (see 5.6), removed the safety requirement for the minimum feasible training load (see...).

(2008 version 5.6)

---Added security requirements for entry points (see 5.7);

---The additional usage instructions have been revised (see 5.8, Chapters 7 and 8 of the.2008 edition);

---Added additional identifiers (see 5.9);

---The content of the general test method has been revised (see 6.1,.2008 version 6.1), adding a finger entrapment test (see 6.1.5), and deleting...

Manufacturer certification is required (see 6.1.5 of the 2008 edition);

---Stability testing has been added (see 6.2), and the inherent load test has been removed (see 6.2 in the 2008 version);

---Load tests have been added for training and storage counterweights, as well as load tests for the movement stops of guide rail equipment (see 6.3.1).

6.3.2 and 6.3.4) changed the external load test (see 6.3.3, 2008 version of 6.3);

---The durability test has been revised (see 6.4, 6.5 in the 2008 edition), and additional requirements for externally loaded equipment have been added (see 6.4.2);

---The experiment involving counterweight support has been removed (see 6.4 in the 2008 edition);

---The test report has been amended (see Chapter 7, 6.6 of the 2008 edition).

This document is modified to adopt ISO 20957-2:2024 "Stationary fitness equipment - Part 2. Special safety features for strength training equipment".

Full requirements and test methods.

The technical differences between this document and ISO 20957-2:2024, and the reasons therefor, are as follows.

---ISO 12100:2010 (see 5.7e) and GB/T 17498.1-2026 have been replaced by the normatively referenced GB/T 15706-2012.

ISO 20957-1:2013 (see Chapters 3-7) has been replaced to adapt to my country's technical conditions.

The following editorial changes have been made to this document.

---To align with existing standards, the standard title has been changed to "Indoor Fixed Fitness Equipment Part 2. Strength Training Equipment"

Additional Special Safety Requirements and Test Methods;

---The reference "5.3.2.2" in section 6.3.1, "Test requirements for training counterweights," is corrected to "5.2.2.1."

---The reference "5.3.2.3" in the test requirements for counterweights for storage is corrected to "5.2.2.2".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on

Standardization of Stationery and Sports Equipment (SAC/TC514).

Introduction

GB/T 17498 "Indoor Fixed Fitness Equipment" is divided into 9 parts. Part 1 covers general requirements, while the other parts cover specific equipment.

Special requirements. The scope of special requirements covers fitness equipment for which safety requirements are combined with general requirements.

GB/T 17498 is proposed to consist of 9 parts.

---Part 1. General Safety Requirements and Test Methods. This section describes the general safety requirements and test methods for indoor stationary fitness equipment.

Verification method.

---Part 2. Additional Special Safety Requirements and Test Methods for Strength Training Equipment. The purpose is to describe strength training equipment.

Additional special safety requirements and testing methods for materials.

---Part 4. Additional Special Safety Requirements and Test Methods for Strength Training Benches. The purpose is to describe the specific safety requirements and test methods for strength training benches.

Additional special safety requirements and testing methods for the stool.

---Part 5. Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment. The purpose is to...

This describes the special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment.

---Part 6. Additional Special Safety Requirements and Test Methods for Treadmills. The purpose is to describe the additional special safety requirements for treadmills.

Requirements and test methods.

---Part 7. Additional Special Safety Requirements and Test Methods for Rowing Machines. The purpose is to describe the additional special safety requirements for rowing machines.

Requirements and test methods.

---Part 8. Additional Special Safety Requirements and Test Methods for Steppers, Stair Climbers, and Mountain Climbers. The purpose is to describe the specific safety requirements and test methods for steppers.

Additional special safety requirements and testing methods for ladder machines, stair climbers, and mountaineering machines.