

ICS 91.100.15

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

GB/T 23452-2025

Replacing GB/T 23452-2009

Natural sandstone slab for building

天然砂岩建筑板材

Issued on: August 29, 2025

Implemented on: March 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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 replaces GB/T 23452-2009 "Natural Sandstone Building Slabs". Compared with GB/T 23452-2009, except for structural adjustments and Aside from editorial changes, the main technical changes are as follows.

- a) The classification has been changed (see 4.1, 2009 version 4.1);
 - b) The rating system has been changed (see 4.2, 2009 version 4.2);
 - c) Commonly used board dimensions have been changed (see 5.1.1, 5.1 in the 2009 edition);
 - d) Thickness tolerances have been modified (see 5.2.1, 5.2.2, and 5.2.1 and 5.2.2 in the 2009 version);
 - e) The classification, requirements, and inspection methods for curved plates have been removed (see sections 4.1.2, 4.2, 5.2.3, 5.2.5, 5.2.7, and 5.2.9 of the 2009 edition).
- 6.2.3, 6.2.5, 6.2.7, 6.2.8, 6.2.9);

- f) Increased processing quality requirements for irregularly shaped panels (see 5.2.6);
- g) The requirement for color spot defects in appearance quality has been removed (see 5.3.2 in the 2009 version);
- h) The physical performance requirements have been changed (see 5.4, 2009 version 5.4);
- i) Requirements and test methods for antifreeze performance have been added (see 5.4, 6.3.5);
- j) A new factory inspection item list has been added (see Table 8);
- k) A type testing item table has been added (see Table 10);
- l) A physical performance test sample table has been added (see Table 11).

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 Building Materials Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Stone Materials (SAC/TC460).

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This document was first published in 2009, and this is its first revision.

1 Scope

This document specifies the classification, grading and marking, technical requirements, test methods, and inspection procedures for natural sandstone building slabs (hereinafter referred to as "slabs").

Rules, marking, packaging, transportation and storage.

This document applies to the production, inspection, and delivery of building decorative panels installed using the adhesive method.

2 Normative references

GB/T 191

GB/T 9966.1

GB/T 9966.2-2020

GB/T 9966.3

GB/T 9966.4-2020

GB/T 13890

GB/T 17670

3 Terms and Definitions

The terms and definitions defined in GB/T 13890 apply to this document.

4.1 Classification

4.1.1 Classified by mineral composition and content.

- a) QZ (Qinze-type sandstone). Sandstone with a quartz content of 45%-90%;
 - b) Quartz Sandstone (QS). Sandstone with a quartz content greater than 90%;
 - c) Tuff (QN). Volcanic clastic rock composed of volcanic ash and fine rock fragments.
- 4.1.2 Classified by shape.

- a) Surface Mount (MB);
- b) Standard type sheet (PX);
- c) Irregularly shaped plates (YX).

4.2 Level

Classified by processing and appearance quality.

- a) The raw boards are classified into three grades, A, B, and C, based on their thickness deviation, flatness tolerance, and appearance quality;
- b) Standard boards are classified into three grades, A, B, and C, based on dimensional deviations, flatness tolerances, angular tolerances, and appearance quality.

4.3 Marking

4.3.1 Name. Use the name or number specified in GB/T 17670.

4.3.2 Marking order. name, category, specifications, grade, standard number.

Example. 600mmx600mmx30mm standard grade A slabs processed from Sichuan red sandstone (mixed sandstone) blocks are marked as.

5.1 General Requirements

5.1.1 Commonly used dimensions of sheet metal are shown in Table 1. The specifications

and dimensions of irregular-shaped sheets and standard-shaped sheets with special requirements shall be determined by the supplier and the buyer through negotiation. Table 1 Sheet Size Series The unit is millimeters.

Side length series. 300, 305, 400, 500, 600, 800, 900, 1000, 1200, 1500 Thickness series (H). 10, 12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100, 150 5.1.2 The boards are permitted to be bonded and repaired. Bonding and repair should not affect the decorative effect of the boards, nor should they reduce the physical properties of the boards.

5.2 Processing quality

5.2.1 The flatness tolerance and thickness deviation of the raw board shall conform to the provisions of Table 2.

Table 2 Flatness tolerance and thickness deviation of raw board The unit is millimeters. project Technical requirements ABC Flatness tolerance. 1.50, 1.80, 2.00 Thickness (H) deviation $H \leq 12 \pm 0.5 \pm 0.8 \pm 1.0$ $12 < H \leq 150 \pm 1.0$ 1.5-1.0

2.0 -1.0

5.2.2 The dimensional deviations of standard-sized plates shall conform to the provisions of Table 3.

Table 3 Dimensional Deviations of Standard Plates The unit is millimeters. project Allowable deviation ABC Length and width. 0-1.0 -1.5 Thickness (H) $H \leq 12 \pm 0.5 \pm 0.8 \pm 1.0$ $12 < H \leq 150 \pm 1.0$ 1.5-1.0

2.0 -1.0

5.2.3 The flatness tolerance of the standard plate shall conform to the provisions of Table 4.

Table 4 Flatness Tolerances for Standard Plates The unit is millimeters. Sheet length (L) Tolerance requirements ABC $L \leq 400$ 0.60 0.80 1.00 $400 < L \leq 800$ 1.20 1.50 1.80 $L > 800$ 1.50 1.80 2.00 5.2.4 The angular tolerance of the standard plate shall conform to the provisions of Table 5.

Table 5 Angle Tolerances for Standard Plates The unit is millimeters. Sheet length (L) Tolerance requirements ABC $L \leq 400$ 0.30 0.50 0.80 $L > 400$ 0.40 0.60 1.00 5.2.5 The angle between the front and side of a standard sheet should not exceed 90°.

5.2.6 The effective dimensions and geometric tolerances of irregularly shaped plates shall be determined through negotiation between the supplier and the buyer. Thickness deviation shall meet the thickness requirements in Table 3, and flatness shall be...

Tolerances, based on the smallest rectangular dimension of the external outline, should conform to the provisions of Table 4.