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

GB/T 23453-2025

Replacing GB/T 23453-2009

Natural limestone slab for building

天然石灰石建筑板材

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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 23453-2009 "Natural Limestone Building Slabs". Compared with GB/T 23453-2009, the main differences are in structural adjustments.

Aside from editorial changes, the main technical changes are as follows.

a) The scope of the document has been changed (see Chapter 1, Chapter 1 of the 2009 edition);

b) The term and definition of "travertine" have been removed (see Chapter 3 of the 2009

edition);

c) The classification, grades, requirements, and inspection methods for curved plates have been deleted (see sections 4.1.2, 4.2, 5.2.3, 5.2.5, and 5.2.7 of the 2009 edition).

(5.2.9, 6.1.3, 6.1.5, 6.1.7, 6.1.8, and 6.1.9)

d) The product classification has been changed (see 4.2, 2009 version 4.2);

e) General requirements for stone protection have been added (see 5.1.1);

f) Commonly used board dimensions have been changed (see 5.1.2, 5.1 in the 2009 edition);

g) Thickness tolerances have been modified (see 5.2.1 and 5.2.2, 2009 versions of 5.2.1 and 5.2.2);

h) Increased processing quality requirements for irregularly shaped panels (see 5.2.7);

i) The requirements for color spots and pinhole defects in appearance quality have been removed (see 5.3.2 in the 2009 version);

j) A volumetric density indicator has been added (see 5.4);

k) Added product application performance requirements and testing methods (see 5.5 and 6.4);

l) A list of factory inspection items has been added (see 7.1.1);

m) A type testing item table has been added (see 7.2.1);

n) A test sample table for physical properties and product application performance has been added (see 7.2.4).

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 product classification, grading and marking, technical requirements, and test methods for natural limestone building slabs (hereinafter referred to as slabs).

Inspection rules, as well as marking, packaging, transportation and storage.

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

4.1 Classification

4.1.1 Classified by density.

- a) Low-density limestone. density not less than 1.76 g/cm³ and less than 2.16 g/cm³;
- b) Medium-density limestone. density not less than 2.16 g/cm³ and less than 2.56 g/cm³;
- c) High-density limestone. density not less than 2.56 g/cm³.

- a) Polished slate (MG);
- b) Standard type sheet (PX);
- c) Irregularly shaped plate (YX).

4.2 Level

Classified by processing and appearance quality.

- a) The rough-finished 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, size, grade and standard number.

Example. 600mmx600mmx20mm standard type, grade A slabs processed from Guangxi silver-line limestone blocks are marked as follows.