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

GB/T 11945-2019

Replacing GB 11945-1999

Autoclaved sand-lime solid brick and solid block

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 11945-1999 "autoclaved lime sand brick", compared with GB/T 11945-1999, the main technical changes are as follows:

- Increased the content of autoclaved solid sand block and large autoclaved lime sand solid block (see
- Added terms and definitions (see Chapter 3);
- Cancel the classification of the allowable deviation and appearance quality according to the size; this standard is based on the size of the appearance, and the product is solid. Classification of bricks, solid blocks and large solid blocks (see 4.1,
- 5.1 of the.1999 edition);
- Cancellation of the flexural strength value requirements (see
- 5.3 of the.1999 edition);
- Increased water absorption, linear drying shrinkage, carbonization coefficient, softening coefficient, radionuclide limit requirements (see 6.5, 6.6, 6.8,
- Increased compressive strength testing methods for solid bricks (excluding standard bricks), solid blocks, and large solid blocks (see 7.3, Appendix A) And Appendix B);
- Modified the rule of the allowable deviation of the size and the quality of the appearance, from the original standard secondary determination method, to a one-time determination method (See 8.5.1,

7.5 of the.1999 edition). This standard was proposed by the China Building Materials Federation. This standard is under the jurisdiction of the National Technical Committee for Standardization of Wall and Roof Building Materials (SAC/TC285). This standard was drafted. Shanghai Su Ke Construction Technology Development Co., Ltd., Wuyi Changyi Building Materials Co., Ltd., China Building Block Association, China State Building Materials Inspection and Certification Group Xi'an Co., Ltd., China Brick and Tile Industry

Association, Jiangsu Provincial Building Science Research Institute Co., Ltd., Shanghai Haijian Construction Materials Co., Ltd., Kunshan Hongxing Building Materials Co., Ltd., Shanghai Lisheng Engineering Testing Technology Co., Ltd. The main drafters of this standard. Du Jiandong, Yi Yan, Zhang Youzhen, Wang Bo, Zhang Deming, Fei Hongliang, Zhou Xuan, Huang Yan, Zhang Qian, Zhang Yuezhi, Wu Chengyu, Yu Xianqing, Wang Junruo, Li Shuigen, Huang Hualan, Huang Lin, Bi Liguang, Ding Hui. The previous versions of the standards replaced by this standard are.

---GB 11945-1989, GB/T 11945-1999. Autoclaved lime sand solid brick and solid block

1 Scope

GB/T 11945-2019 is the Chinese national standard on autoclaved sand-lime solid brick and solid block, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 18 October 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2020. Classification: ICS 91.100.30, CCS Q15. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions, classification and marking, general requirements, technical requirements, and test methods for autoclaved lime sand solid bricks and solid blocks. Laws, inspection rules, signs and accompanying documents and packaging, transportation and storage. This standard applies to industrial and civil buildings, construction of autoclaved solid sand bricks and autoclaved solid sand blocks.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2542 brick wall test method

GB/T 4111 concrete block and brick test method

GB 6566 building materials radionuclide limited

GB/T 16753 silicate building product terminology

GB/T 18968 wall material terminology

GB 50176 civil building thermal design specification JGJ63 concrete water standard JC/T 621 quicklime for silicate building products JC/T 622 sand for silicate building products

3 Terms and definitions

The following terms and definitions as defined in GB/T 16753 and GB/T 18968 apply to this document.

3.1 Large autoclaved sandstone solid block autoclaved sand-lime solid large block Autoclaved lime sand block with hollow ratio less than 15%, length not less than 500mm or height not less than 300mm, hereinafter referred to as large solid Block.

4 Classification and marking

4.1 Specifications Autoclaved lime sand solid brick (code LSSB), autoclaved lime sand solid block (code LSSU), large autoclaved lime sand solid block (code LLSS), should consider the width and thickness requirements of the masonry crevices applied in the project. After consultation between the supplier and the buyer, determine the marking in the order contract. size.

4.2 Rating According to the compressive strength, it is divided into MU10, MU15, MU20, MU25, MU30 intensity levels.