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

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Autoclaved fly ash perforated brick

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(English Translation)

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Foreword

Chapter 6 of this standard are mandatory, others are recommended.

This standard is prepared in accordance with GB/T 1.1-2009 given rules.

The standard proposed by China Building Materials Federation.

This standard by the national wall, roof and road construction materials Standardization Technical Committee (SAC/TC285) with centralized.

1 Scope

This standard specifies the autoclaved fly ash perforated brick terms and definitions, size, grade and mark a general rule, technical requirements, test methods, Inspection rules, product certification, stacking and transport.

This standard applies to industrial and civil construction of load-bearing structure with autoclaved fly ash perforated brick (hereinafter referred to as porous bricks).

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 175 Common Portland Cement Test methods for wall GB/T 2542 puzzle GB/T 4111
Test methods for small concrete hollow block GB 6566 building materials radionuclide limits
GB/T 18968 wall material terms JC/T 409 silicate building products using fly ash JC/T 621
with lime silicate building products

3 Terms and Definitions

GB/T 18968 and established the following terms and definitions apply to this standard.

Fly ash, lime (or calcium carbide slag) as the main raw material, gypsum and other additives can be mixed with the right amount and other aggregates, the billets, pressed Molding, high-pressure steam curing made of brick, codenamed AFPB.

4.1 Specifications

The outlook for perforated brick hexahedral right angle, the length, width, height should meet the requirements of Table 1.

Table 1 Dimensions in millimeters

Length (L) Width (B) Height (H) 360,330,290,240,190,140 240,190,115,90 115,90 Note.
Other sizes after consultation by both parties, such as the construction of a thin mortar joint, the relevant size can be adjusted accordingly.

4.2 Rating

Press strength into MU15, MU20, MU25 three levels.

4.3 Mark

4.3.1

porous brick by product code (AFPB), size, strength grade, standard number of sequence tags.

4.3.2 Tag example

Size is 240mm x 115mm x 90mm, perforated brick strength class tag example MU15 as follows.

AFPB 240mm x 115mm x 90mm MU15 GB 26541

5.1 Raw materials

5.1.1

Fly shall comply with JC/T 409's.

5.1.2

quicklime shall comply with JC/T 621's.

5.1.3 Other materials

Shall comply with the relevant requirements of the standard, the relevant test should be done before the application of non-standard materials, meet the requirements before use.

5.2 Hole

5.2.1

The hole should be built to withstand the pressure in the direction consistent with the brick.

5.2.2

Shop pulp surface should be blind or semi-blind holes.

6.1 Appearance quality and size deviation

Appearance quality and size deviation should meet the requirements of Table 2.

Table 2 appearance quality and dimension deviation in millimeters

Name of Project Specifications Appearance Quality Missing edge off angle the number should be less than (a) 2 Maximum three directions projection size should not exceed 15 Crack crack extending projection size should not exceed a total of 20 Bend should be less than 1 Spall allowed Size deviation Length 2, -1 Width 2, -1 Height ± 2

6.2 Porosity

Porosity of not less than 25% and not more than 35%.

6.3 Intensity level

Intensity level should be in accordance with Table 3.

Table 3 intensity level megapascals

power level

Compressive strength and flexural strength the average of five monolithic $\geq$ $\geq$ minimum average of five monolithic minimum $\geq$ $\geq$ MU15 15.0 12.0 3.8 3.0 MU20 20.0 16.0 5.0 4.0 MU25 25.0 20.0 6.3 5.0

6.4 Frost resistance

Frost resistance shall conform to Table 4.

Table 4 frost resistance

Antifreeze mass loss rate of the use of regional indicators /% compressive strength loss rate /% Subtropical region D15 Hot summer and cold winter area D25 Cold regions D35 Cold area D50 ≤ 5 ≤ 25

6.5 Linear drying shrinkage

Linear drying shrinkage should not be greater than 0.50mm/m.

6.6 Carbonation coefficient

Carbonation coefficient should be not less than 0.85.

6.7 Water absorption

Water absorption should be less than 20%.

6.8 Limit of radionuclides

Radionuclide limits shall comply with the provisions of GB 6566.

7.1 Appearance quality and size deviation

Appearance quality and dimension deviation test methods according to GB/T 2542 carried out.

7.2 Porosity

Porosity test methods according to GB/T 2542 carried out.

7.3 Intensity level

Standard Test Method for Compressive Strength according to Appendix A of flexural strength test method according to GB/T 2542 carried out.

7.4 Frost resistance

Frost resistance test method according to GB/T 4111 carried out, wherein the compressive strength test method in Appendix A be.

7.5 Linear drying shrinkage

Linear drying shrinkage test methods according to GB/T 4111 carried out, wherein a handheld gauge strain gauge is 150mm.