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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 16308-2026

Replacing GB/T 16308-2008

Ferrocement slabs

钢丝网水泥板

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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 16308-2008 "Steel Wire Mesh Cement Board". Compared with GB/T 16308-2008, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows:

a) Increased requirements for fiber raw materials (see 5.1.6);

b) Increased requirements for raw materials of admixtures (see 5.1.7);

c) Added technical requirements for the thickness of the protective layer (see 6.5);

d) A test method for protective layer thickness has been added (see 7.5);

e) The sampling and judgment rules for factory inspection and type inspection have been changed (see Chapter 8,

6.4 of the.2008 edition). 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 Cement Products (SAC/TC197). This document was drafted by: Suzhou Concrete and Cement Products Research Institute Co., Ltd., and Suzhou Concrete and Cement Products Research Institute Testing Center Co., Ltd. The company, Xinjiang Tianfu Yuanda Construction Industrialization Co., Ltd., Anhui Guancheng Electric Power Equipment Co., Ltd., Henan Transportation Vocational College, Henan Jiaotong University Engineering Technology Group Co., Ltd., Wuhan Silibo Rail Equipment Co., Ltd., Zhejiang Dadongwu Hangxiao Green Building Technology Co., Ltd., Tai'an City Wenhe Cement Products Co., Ltd., Yunnan Chuxiong Hengji Pipeline Industry Co., Ltd., Hebei Construction Engineering Group Co., Ltd., Guangdong Hui Jie Electric Power Group Co., Ltd., and Qujing Dacheng Trade Co., Ltd. The main drafters of this document are. Wang Tianqi, Qian Ming, Wu Guofang, Wang Wenlin, Liao Yibing, Fu Nana, Qin Qiong, Wei Yi, Shao Jinggan, and Zou Yehong. Li Hongbing, Huang Wenjun, Xu Shenglong, Yan Jianming, Jia Fengsuo, Guo Qunlu, Li Yanmei, Guo Xuanyu, Wang Na. This document was first published in.1996, revised for the first time in.2008, and this is the second revision. Steel wire mesh cement board

1 Scope

GB/T 16308-2026 is the Chinese national standard covering the ferrocement slab - thin mortar reinforced with layers of steel mesh, used for roofing, cladding and tanks, with its dimensions, strength, deflection, water tightness and durability. It replaces GB/T 16308-2008, revised with GB/T 7897-2026 on the mortar and GB/T 4582-2026 on the vocabulary. It was issued on 28 January 2026 and has been in force since 1 August 2026, replacing GB/T 16308-2008. The document is under the responsibility of the China Building Materials Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification, specifications and marking, general provisions, technical requirements, test methods, inspection rules, and marking of steel wire mesh cement boards. Packaging, transportation and storage, and product certificate of conformity. This document applies to the production, manufacturing, and inspection of steel

wire mesh cement boards for industrial and civil construction.

4.1 Classification

4.1.1 According to their uses, wire mesh cement boards are divided into wire mesh cement roof panels (code GSWB) and wire mesh cement floor panels (code GSLB).

4.1.2 Steel wire mesh cement roof panels are classified into four levels. I, II, III, and IV, according to variable load and permanent load, as shown in Table 1.

4.1.3 Steel wire mesh cement slabs are classified into four levels. I, II, III, and IV, according to variable load, as shown in Table 2.

4.2 Specifications

4.2.1 A schematic diagram of the wire mesh cement board is shown in Figure 1.

4.2.2 The specifications and dimensions of the wire mesh cement roof panels are shown in Table 3, and the specifications and dimensions of the wire mesh cement floor panels are shown in Table 4.

4.3 Marking Steel wire mesh cement board products are marked in the order of code, nominal size, height, grade and this document number. Example 1.A Class II steel wire mesh cement roof panel with nominal dimensions of 3000mm x 3000mm and a height of 180mm is marked as follows: GSWB3000x3000x180II GB/T 16308 Example 2.A Class II steel wire mesh cement roof slab with nominal dimensions of 3300mm x 1200mm and a height of 250mm is marked as follows: GSLB3300x1200x250II GB/T 16308

5.1 Raw materials

5.1.1 Cement The performance of cement should comply with the requirements of GB 175.Ordinary Portland cement or slag Portland cement are preferred.

5.1.2 Sand The properties of the sand should conform to the requirements of GB/T 14684.Natural or manufactured sand with a fineness modulus of

3.5 is preferred, and the maximum particle size should not exceed [specific value missing]. It should be larger than 4mm, and its mud content (mass fraction) should be less than 1%, and its mud lump content (mass fraction) should be less than 0.5%.

5.1.3 Mixing water It should comply with the provisions of JGJ63.

5.1.4 Admixtures It should comply with the provisions of GB 8076.

5.1.5 Reinforcing bars, steel wire, and wire mesh

5.1.5.1 The performance of the reinforcing bars in the ribs of the wire mesh cement board shall comply with the requirements of GB 1499.1.HRB400 ribbed steel bars are

recommended, and their performance... It should comply with the provisions of GB 1499.2.HPB300 steel bars are recommended for structural reinforcement.

5.1.5.2 Cold-rolled ribbed steel bars shall comply with the provisions of GB 13788.

5.1.5.3 The wire mesh should preferably be woven from cold-drawn low-carbon steel wire with a diameter of 0.9mm~1.0mm and a mesh size of 10mmx10mm. Alternatively, welded wire mesh can be used. Other specifications of wire mesh may also be used, but the diameter should not exceed 2mm, and the mesh size should not exceed 50mm x 50mm. The tensile strength of the steel wire should not be less than 450 MPa.

5.1.6 Fibers Steel fibers should conform to the requirements of GB/T 39147, synthetic fibers should conform to the requirements of GB/T 21120, and basalt fibers should conform to the requirements of GB/T 21120. According to GB/T 23265, alkali-resistant glass fibers shall comply with the provisions of GB/T 38143, or other fibers that have been proven to be equally applicable.

5.1.7 Admixtures Fly ash should comply with the requirements of GB/T 1596, and slag powder should comply with the requirements of GB/T 18046, or other materials that have been proven to be equivalent. Applicable admixtures.

5.2 Construction

5.2.1 The overlap length of the wire mesh should not be less than 50mm for the smooth edge and not less than 80mm for the rough edge.

5.2.2 The reinforcement arrangement of the ribs in the wire mesh cement board should not exceed two rows of reinforcement. The clear spacing should not be less than the diameter of the reinforcement and should not be less than 10mm.

5.2.3 The diameter of the reinforcement bars on the surface of the steel wire mesh cement board and the diameter of the stirrups in the ribs shall not be less than 3mm, and the spacing shall not be less than.200mm.

6 Technical Requirements

6.1 Mortar compressive strength The compressive strength of the mortar used for steel wire mesh cement board should not be less than 40 MPa.

6.2 Appearance Quality The appearance quality of the wire mesh cement board should meet the requirements of Table 5.

6.3 Dimensional Deviation The dimensional deviations of the wire mesh cement board should conform to the provisions of Table 6.

6.4.1 Bearing capacity of wire mesh cement board