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Lightweight sandwich insulation wall panels for rural housing

农村房屋用夹心保温轻质墙板

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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. 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 Ministry of Housing and Urban-Rural Development of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Building Components (SAC/TC454). This document was drafted by: China Academy of Building Research Co., Ltd., China Railway Construction Corporation Limited, Guangxi Normal University, and Shanghai. Fuzhou Municipal Academy of Building Research Co., Ltd., Tongji University, Fuzhou Municipal Planning and Design Institute Group Co., Ltd., China Railway Construction Engineering Group Co., Ltd. China Construction Hailong Technology Co., Ltd., Science and Technology Development Center of the Ministry of Housing and Urban-Rural Development, Beijing Municipal Engineering Design Institute Co., Ltd. Beijing University of Aeronautics and Astronautics, Beijing University of Science and Technology, China Academy of Building Research Co., Ltd., Beijing Construction Engineering New Building Materials Co., Ltd. Hefei Construction Investment Holding (Group) Co., Ltd., China Merchants Property Development (Beijing) Co., Ltd., China Construction Jiuhe Development Group Co., Ltd., Beijing Urban Sub-center Investment and Construction Group Co., Ltd., and Tsinghua University Architectural Design and Research Institute Co., Ltd. The main drafters of this document are. Xiao Ming, Han Wenlong, Chen Yourong, Xu Chuanyang, Lü Wanqing, Xue Weichen, Liang Zhanshuo, Xu Bin, Gao Xiaoming, and Song Shuxiang. Ma Xinbo, Zhao Wei, Xu Xiaotong, Jiang Anwei, Li Sheng, Zhang Haichao, Gao Zhiqiang, Zheng Sujing, Xu Qingfeng, Chen Caihua, Hu Lili,

Song Xiao, Zhang Yizhou Liu Meixia, Wang Jian, Hou Chuanchuan, Jiang Jiafei, Bai Xuegang, Huang Aiju, Chen Lingzhu, Gao Song, Dong Guoqun, Feng Yang, Liu Lei, Sun Ji, Xu Guoshuang, Wang Zan Bai Shuyang, Bu Fanjie, Wu Xiaofeng, Tang Yuexing, Liu Yilin, Liu Chen, Sai Yang, Li Xin, Shi Tianxiang, Li Junni. Sandwich Insulated Lightweight Wall Panels for Rural Houses

1 Scope

GB/T 46825-2025 is the Chinese national standard covering the lightweight non-loadbearing sandwich panel for village construction - its thermal performance, its strength and fixing, its behaviour in fire and its resistance to the impacts of ordinary use. Rural housing is where China's building energy losses are concentrated. First edition. Issued on 2 December 2025, it has been in force since 1 July 2026.

This document specifies the classification, specifications, and marking of sandwich-insulated lightweight wall panels for rural houses, including general rules, requirements, inspection rules, and marking. Storage and transportation are described, along with the corresponding testing and inspection methods. This document applies to non-structural sandwich insulated lightweight walls used in rural houses with 6 stories or less and a building height not exceeding 24m. Production and inspection of boards.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 228.1 Metallic materials - Tensile testing - Part

3 Welded Wire Mesh

GB/T 1591 Low-alloy high-strength structural steel

GB/T 4226 Stainless Steel Cold-Worked Bars

GB 8624 Classification of fire performance of building materials and products

GB/T 8810 Determination of water absorption rate of rigid foamed plastics

GB/T 8811 Test method for dimensional stability of rigid foamed plastics

GB/T 9978.1 Fire resistance test methods for building components - Part

8 Special Requirements for Non-Load-Bearing Vertical Separators

GB/T 10294 Determination of steady-state thermal resistance and related properties of thermal insulation materials - Protective hot plate method

GB/T 10801.1 Molded polystyrene foam (EPS) for thermal insulation

GB/T 10801.2 Extruded polystyrene foam (XPS) for thermal insulation

GB/T 11969 Test methods for the performance of autoclaved aerated concrete

GB/T 13475 Determination, Calibration and Protection of Adiabatic Steady-State Heat Transfer Properties using the Hot Box Method

GB/T 13912 Technical requirements and test methods for hot-dip galvanized coatings on steel parts

GB/T 15762 Autoclaved aerated concrete panels

GB/T 19889.3 Acoustics of buildings and building components - Measurement of sound insulation - Part