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

GB/T 16727-2025

Replacing GB/T 16727-2007

Precast concrete plate for composite slab

叠合板用预制混凝土底板

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1 Scope

GB/T 16727-2025 is the Chinese national standard on precast concrete plate for composite slab, 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 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026. Classification: ICS 91.060, CCS Q 72. 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 document specifies the classification, specifications and marking, general requirements, requirements, inspection rules, marking, and stacking of precast concrete base slabs for composite slabs. It includes transportation and product-related documents, and describes the corresponding test methods. This document applies to the production and inspection of precast concrete base slabs for composite slabs in industrial and civil buildings.

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 175 General Purpose Portland Cement

GB/T 700 Carbon Structural Steel

GB/T 701 Low-carbon steel hot-rolled round bars

GB 1499.1 Steel for reinforced concrete - Part

6 Requirements

7. Test Methods 9.

13 Appendix A (Normative) Technical Requirements for Steel Trusses

14 Appendix B (Informative) Sample Form for Product Certificate of Conformity for Precast
Concrete Slabs for Composite Slabs 15

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 16727-2007 "Prestressed Concrete Slabs for Composite Slabs". Compared
with GB/T 16727-2007, except for the structural... Aside from structural adjustments and
editorial changes, the main technical changes are as follows:

- a) A "Terms and Definitions" section has been added (see Chapter 3);
- b) The relevant content regarding prestressed concrete hollow core slabs for composite
slabs has been deleted (see sections 3.1, 3.2.2, and Chapter 4 of the.2007 edition);
- c) Changes were made to "Classification, Specifications, and Marking" (see Chapter 4,
Chapters 3 and 4 of the.2007 edition);
- d) The "General Requirements" section has been revised and placed in a separate chapter;
"Performance Requirements" has been added; and "Board Construction" has been
removed (see Chapter 5). (2007 edition, 5.1, 5.3, 5.4, 5.5)
- e) The requirements and test methods for "Raw Materials," "Appearance Quality," and
"Dimensional Tolerances" have been changed (see 6.1, 6.2, 6.3, 7.1, 7.2). 7.3 (5.2, 5.6, 5.7,
6.1, 6.5, and
6.6 of the.2007 edition)
- f) The structural performance requirements and test methods for the plates have been
removed (see sections
6.7 of the.2007 edition);

g) An additional requirement has been added regarding the absolute value of the mid-span inversion arch of the prestressed concrete precast base slab (see 6.5);

h) Added requirements for quality certification documents at the time of product delivery (see 10.1);

i) Added technical requirements for steel trusses (see Appendix A). 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 Academy of Building Research Co., Ltd., and China Metallurgical Construction Research Institute. China Academy of Building Research, Tongji University, China Construction Technology Group Corporation, Zhengzhou University Comprehensive Design and Research Institute Co., Ltd., Tianjin University Architecture Design and Planning Research Institute Co., Ltd., China Southwest Architectural Design & Research Institute Co., Ltd., Longxin Construction Group Co., Ltd., China Railway Fourth Bureau Group Co., Ltd. Group Co., Ltd., China Construction First Bureau Group First Construction Co., Ltd., Zhejiang Jiaxing Zhongda Construction Co., Ltd., Hunan Construction Management Construction Engineering Consulting Co., Ltd. Limited Liability Company, Guangzhou Construction Machinery Group Co., Ltd., Anhui Jinpeng Construction Group Co., Ltd., China Construction Eighth Engineering Bureau Co., Ltd. Xinjiang Metallurgical Construction (Group) Co., Ltd., Jiuyi Zhuangchen Technology (Group) Co., Ltd., and Hunan Hongkun Shancheng Engineering Consulting Management Co., Ltd. Limited Liability Company, Chengdu Architectural Design & Research Institute Co., Ltd., Shenzhen Construction Engineering Group Co., Ltd., Shenzhen Hongyuan Construction Technology Co., Ltd. Company, Hebei Xindadi Electromechanical Manufacturing Co., Ltd., China Mobile Communications Group Design Institute Co., Ltd., Shanghai Tongjia Construction Technology Co., Ltd. The main drafters of this document are. Gao Zhiqiang, Yu Yinquan, Zhao Yong, Wang Xiaofeng, Zhao Guangjun, Liu Ruonan, Gu Taichang, Cheng Zhijun, Li Xiaoming, and Du Zhichao. Yu Qiubo, Zhang Shulu, Liu Yifeng, Zhang Xizhi, Gao Xiaoming, An Haiyu, Yang Xinghe, Cao Jun, Li Zengyin, Yu Shaole, Chen Xiaowen, Lu Houchuan, Shen Pei, Pan Xueming, He Haijun, Wu Bengang, Wang Guosheng, Wang Zhao, Fan Wen, Chen Bin, Liu Yang, Gao Yuting, Lai Guangwen, Liao Zhiqiang, Chen Fuliang, Bai Xiaojun, Zhang Xuebin Peng Li. This document was first published in.1997, revised for the first time in.2007, and this is the second revision. Precast concrete base slab for composite slabs