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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

GB 50189–2005

Design Standard for Energy Efficiency of Public Buildings

公共建筑节能设计标准

Issued on April 04, 2005 **Implemented on July 01, 2005**

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Ministry of Construction of People's Republic of China

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Chief Development Department: Ministry of Construction of the People's Republic of China
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Notice from Ministry of Construction on Publishing the National Standard of "Design Standard for Energy Efficiency of Public Buildings"

Hence "Design Standard for Energy Efficiency of Public Buildings" has been approved as the national standard with a serial number of GB 50189—2005, which shall come into force upon July 1, 2005.Herein, provisions 4.1.2、4.2.2、4.2.4、4.2.6、 5.1.1、5.4.2 (1、2、3、5、6)、5.4.3、5.4.5、5.4.8、and 5.4.9 are compulsory provisions, which must be forced strictly. At the same time, the former "Design Standard for Energy Efficiency of Heat Engineering and Air Conditioning of Tourism Hotel Buildings" GB 50189—93 shall be abolished simultaneously .Authorized by the Institute of Norm and Ration of the Ministry of Construction of the People's Republic of China, this Standard is published and distributed by China Architecture & Building Press.

Ministry of Construction of the people's Republic of China

April 4, 2005

Foreword

According to the requirement of Document Jian Biao〔2002〕No.85 issued by Ministry of Construction (MOC)--“Notice on Printing the Development and Revision Plan of National Engineering Construction Standards in 2002”, this Standard is prepared by China Academy of Building Research and Building Energy Efficiency Branch of China Construction Industry Association as the chief development organization, jointly by other 21 organizations in national wide.

During the preparation of this Standard, the editorial group carried out thorough and in-depth investigation and research； carefully summarized the rich experience in preparing the design standards for energy efficiency of residential buildings of different regions, learned the latest achievements of developed countries in preparing design standards for energy efficiency of buildings, carefully studied and analyzed the status and development of public buildings in China, prepared this Standard based on the extensive comments and through repeatedly discussion, modification and perfection, and held national meeting by inviting the experts concerned to review and finalize the Standard.

This Standard comprises 5 chapters and 3 appendixes with the main contents as follows： general provisions, terms, calculation parameters for energy efficiency design in indoor environment, building and building thermal design, energy efficiency design of heating, ventilation and air conditioning, etc.

The provisions(s) printed in bold type is (are) compulsory one (ones) and must be forced strictly.

The Ministry of Construction is in charge of the administration of this Standard and the explanation of the compulsory provisions. The China Academy of Building Research is responsible for the explanation of specific technical contents.

All relevant organizations are kindly requested to sum up and accumulate your experiences in actual practices during the process of implementing this standard. The relevant opinions and advice, whenever necessary, can be posted or passed on to China Academy of Building Research (30# Bei San Huan Dong Lu, , Beijing, China. Post Code： 100013) for reference in future revision.

Chief development organization, participating development organizations and chief drafting staff of this Standard ；

Chief development organizations：

China Academy of Building Research

Building Energy Efficiency Branch of China Construction Inclustry Association

Participating development organizations；

CSCEC Northwest Building Design Research Institute
CSCEC Southwest Building Design Research Institute
Tongji University
China Architecture Design Research Institute
Shanghai Architecture Design Research Co., Ltd
Shanghai Architecture Scientific Research Institute
Central-south Architecture Design Institute
China Nonferrous Engineering and Research Institute
CSCEC North-China Building Design Research Institute
Beijing Architecture Design Research Institute
Guangzhou Design Institute
Shenzhen Building Scientific Research Institute
Chongqing Building Technology Development Center
Beijing Zhenli High Technology Co., Ltd
Beijing Jinyige Curtain Wall Engineering Co., Ltd
YORK (Wuxi) Air-conditioning and Refrigeration Tech.Ca., Ltd
Shenzhen Fangda Decoration Engineering Co., Ltd
Qinhuangdao Yaohua Glass Co., Ltd
Teling Air Conditioner Co., Ltd
Carrier Air Conditioner Sales Service (Shanghai) Co., Ltd
Dove Paint (Shanghai) Co., Ltd
Beijing Xinglijie Technology Co., Ltd

Chief Drafting Staff：

Lang Siwei　Lin Haiyan　Tu Fengxiang　Lu Yaoqing
Feng Ya　Long Weiding　Pan Yungang　Shou Waiwei
Liu Mingming　Cai Lude　Luo Ying　Jin Lina　Bu Yiqiu
Zheng Aijun　Liu Junyue　Peng Zhihui　Huang Zhenli
Ban Guangsheng　Sheng Ping　Zeng Xiaowu　Lu Daxae
Yu Zhonghai　Yang Liming　Zhang Yan　Zhou Hui　Du Li

Contents

1 General Provisions

1.0.1 This Standard has teen worked out for the purpose of implementing relevant state laws, rules, regulations and policies, improving the indoor environment of public buildings, enhancing energy efficiency.

1.0.2 This Standard is applicable to energy efficient design of new construction, extension and renovation of existing public buildings.

1.0.3 Under the precondition of ensuring the same index of indoor environment, the total annual energy consumption for heating, ventilation, air conditioning and lighting in building designed according to this Standard can be reduced by 50% compared with designs not utilizing such energy efficiency measures. The energy efficiency design for lighting of public buildings shall accord with the current national standard "Standard for lighting of buildings" GB 50034—2004.

1.0.4 The design for energy efficiency of public buildings is not only the requirements stipulated in this standard, but also those in the current relevant ones of the nation shall be complied with.

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