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NATIONAL STANDARD



OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

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GB 50348-2004

**Technical Code for Engineering of Security
and Protection System**

安全防范工程技术规范

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Jointly Issued by **Ministry of Construction of the People's Republic of China**
General Administration of Quality Supervision, Inspection
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Chief Development Department: Ministry of Public Security of the People's Republic of China

Approval Department: Ministry of Construction of the People's Republic of China

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NOTICE

This is the English translation of “Technical Code for Engineering of Security and Protection Alarm System”. In case of any inconsistency between the Chinese version and the English version, the Chinese one shall prevail.

Announcement of the Ministry of Construction of the People's Republic of China

No. 275

Announcement of the Ministry of Construction Concerning the Issue of the National Standard “Technical Code for Engineering of Security and Protection System”

It is hereby approved that the provisions of GB50348–2004 “Technical Code for Engineering of Security and Protection System” has been approved as national standards and it will be implemented since December 1, 2004 with its serial number as GB50348–2004. Among these provisions, article 3.1.4, 3.13.1, 4.1.4, 4.2.4(2), 4.2.5, 4.2.6(2), 4.2.7(1)(2), 4.2.8(1)(2), 4.2.9(1)(2)(3)(4), 4.2.10, 4.2.11(2)(4)(5), 4.2.15, 4.2.16(2), 4.2.17, 4.2.18(3), 4.2.21, 4.2.28(5), 4.2.32(3), 4.3.5 (1)(2)(3)(4)(5)(7), 4.3.13(1)(2)(3)(4), 4.3.18, 4.3.19, 4.3.20, 4.3.21(1)(4), 4.3.23(4), 4.3.24(2), 4.3.27, 4.4.6, 4.4.7, 4.4.28(1), 4.5.6, 4.5.7, 4.5.8, 4.5.9, 4.5.13, 4.5.14, 4.5.19, 4.5.20, 4.5.21, 4.5.28, 4.5.31(1), 4.6.6, 4.6.7, 4.6.9, 4.6.10, 4.6.11, 4.6.13, 4.6.15, 4.6.18, 4.6.20, 4.6.23, 4.6.25, 4.6.27, 5.2.8(4)(5), 5.2.13(3), 5.2.18(3), 6.3.1, 6.3.2, 7.1.2, 7.1.9, 8.2.1 (1)(2)(3)(4), 8.3.4 are compulsory provisions and must be enforced strictly.

Authorized by Research Institute of Standards & Norms of the Ministry of Construction, the code is published by China Planning Press.

Ministry of Construction of the People's Republic of China

October 19, 2004

Foreword

According to the requirements of Document Jian Biao [1999]No. 308 issued by Ministry of Construction (MOC)—"Notice on Printing the Development and Revision Plan of National Engineering Construction Standards in 1999" and Gong An Ke [1999] No. 19 issued by Ministry of Public Security (MPS)—"Notice on Setting up Leading Group and Working Group for Development of "Technical Code for Engineering of Security and Protection System", the standardization technical committee of National Security and Protection Alarm System, authorized by the Ministry of Public Security, in conjunction with 25 units and 43 experts as well as technical engineers, have finished developing "Technical Code for Engineering of Security and Protection System".

The code is the uniform code for the construction of security and protection system. It is an important technical document to guarantee the quality of the security and protection system and to safeguard the security of the life and property of the people.

During the development of the code, the code committee summarized and absorbed experiences and advanced technologies of the construction and management of security and protection system and took reference to some relevant national standards and recognized codes and standards used in other countries. This code was finalized after extensive consultation with related organizations like security and protection industry, information, engineering construction and cultural relics, finance, civil aviation, railroad, national goods and material reserve and other industries and organizations according to the requirements of "Management Method of National Engineering Construction Standard".

The code includes 8 chapters with the main contents as the following: general principles, terminology, design of security and protection system, design of security and protection system with high risk, design of security and protection system with ordinary risk, construction of security and protection system, inspection of security and protection system and acceptance of security and protection system.

The provisions printed in bold type are compulsory ones and must be enforced strictly.

The Ministry of Construction is responsible for administration of the Code and the explanation of its compulsory articles, while the technical committee of National Security and Protection Alarm System is responsible for the explanation of specific technical contents of this code. All relevant organizations are kindly required to sum up and accumulate your experiences in actual practices during the process of implementing this code. The relevant revisions and supplements, whenever necessary, can be posted or passed on to the secretariat of technical committee of National Security and Protection Alarm System (No.1, Shoudu Ti Yuan Guan Nan Lu, Haidian district, Beijing. 100044. Tel: 010-88513505; Fax: 010-88513419, Email: tc100sjl@263.net) for future reference.

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Chief development unit: Science and Technology Bureau of Ministry of Public Security

Technical committee of National Security and Protection Alarm System

Assistant chief development unit:

Public Order Administration of Ministry of Public Security

Public Security Bureau of Ministry of Railways

State Cultural Relic Bureau

Domestic Security and Defense of People's Bank of China

Public Security Bureau of Civil Aviation Administration of China

State Reserve Bureau of National Development Council

Participating organizations: Technology defense office of Beijing Public Security Bureau

Technology defense office of Shanghai Public Security Bureau

1st Research Institute of Ministry of Public Security

3rd Research Institute of Ministry of Public Security

China Institute of Building Standard Design

Quality Test Center for Security and Police Electronic Products of MPS

Quality Supervision and Test Center for Security and Protection Products of MPS

China Airport Security Equipment Engineering Co., Ltd.

2nd Academy of Spaceflight Beijing Tiandun Electronic Technology Co., Ltd.

Capital Museum

Shanghai Modern Building Design (Group) Co., Ltd.

Shanghai Sandun Security and Protection System Company

Shanghai Diebold Security and Protection Equipment Co., Ltd

Shanghai Wancheng Electronics Co., Ltd.

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1 General Provisions

1.0.1 This code is formulated with a view to secure the design, construction, inspection and acceptance of the security and protection system, to improve the quality of it and to secure the safety of life and property.

1.0.2 The code is applicable to newly built, renovated and extended security and protection system. The construction of all-purpose public buildings and constructions (groups) and buildings and constructions (groups) with special purposes and high hazards shall meet the requirements of this code.

1.0.3 The construction of the security and protection systems shall be brought into the general plan of the organization or department. The general design, installation and independent acceptance of the system shall be done based on the factors such as the functions, management requirements and cost of the system.

1.0.4 The construction of the security and protection system shall meet the requirements of related national laws and regulations. The protection level of the system shall be correspondent with the risk level of the protection objects.

1.0.5 All kinds of the security and protection system shall be safe, reliable, open, extendable and flexible. The overall situation to achieve the purpose of ensuring safety, serviceability, technical superiority and economy shall be considered.

1.0.6 Not only the requirements stipulated in this code, but also those in the current relevant ones of the nation shall be complied with when constructing the security and protection system.



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