

UDC



NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC  
OF CHINA

**中华人民共和国国家标准**

P

GB 50243-2002

---

**Code for Acceptance of Construction Quality of  
Ventilation and Air Conditioning Works**

**通风与空调工程施工质量验收规范**

Issued on March 15, 2002

Implemented on April 01, 2002

---

Issued by **Ministry of Construction of the People's Republic of China**

**General Administration of Quality Supervision, Inspection and Quarantine  
of the People's Republic of China**

NATIONAL STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA  
中华人民共和国国家标准

Code of Acceptance for Construction  
Quality of Ventilation and Air Conditioning Works  
通风与空调工程施工质量验收规范

**GB 50243-2002**

Chief Development Department: Ministry of Construction of the People's Republic of China

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

Implementation Date: April 1, 2002

China Planning Press

中国计划出版社

Beijing 2009

# Introduction

This version is one of China's engineering construction standards in English series, which, in compliance with the relevant procedures and stipulations, has been organized to translate by China Association for Engineering Construction Standardization (CECS) authorized by Ministry of Housing and Urban-Rural Development (MOHURD) of the People's Republic of China. On December 4, 2008, MOHURD published it by means of Announcement of No. 177.

The English version has been translated directly from the Chinese Standard "Code of Acceptance for Construction Quality of Ventilation and Air Conditioning Works" GB 50243- 2002 published by China Planning Press. The copyright is owned by MUO- HURD. In the event of any discrepancy in the process of implementation, the Chinese version shall prevail.

Many thanks should go to the organizations like China Academy of Building Research who have offered strong support during the course of translation and revision of this version, and also to the staff from the relevant standard development organizations and groups who have provided practical assistance through their hard work.

For the sake of improving its quality, any kind of constructive criticism, comments and suggestions in association with this version is welcome. It would be greatly appreciated if they could be fed back to CECS.

Post address: China Association for Engineering Construction Standardization  
(CECS)  
No. 9, Sanlihe Rd, Haidian District  
Beijing, 100835, China

Website: [www.cecs.org.cn](http://www.cecs.org.cn)

E-mail: [cecs@mail.cin.gov.cn](mailto:cecs@mail.cin.gov.cn)

The English translation was done by Li Dan

Revised by Song Bo Liu Song

Department of Standards and Norms,  
Ministry of Housing and Urban-Rural Development  
of the People's Republic of China

# **Notice on Publishing the National Standard of “Code of Acceptance for Construction Quality of Ventilation and Air Conditioning Works”**

Jian Biao [2002] No. 60

According to the requirements of Document Jian Biao [2001] No. 87 issued by Ministry of Construction (MOC) — “Notice on Printing the Development and Revision Plan of National Engineering Construction Standards in 2000 ~ 2001”, Shanghai Municipal Construction and Administration Committee has amended the “Code of Acceptance for Construction Quality of Ventilation and Air Conditioning Works” jointly with relevant authorities. The Ministry of Construction has organized relevant departments to review the code, and now approved it to be a national standard with the code number GB 50243- 2002, to be implemented from April 1, 2002. Among the provisions, 4.2.3, 4.2.4, 5.2.4, 5.2.7, 6.2.1, 6.2.2, 6.2.3, 7.2.2, 7.2.7, 7.2.8, 8.2.6, 8.2.7, 11.2.1 and 11.2.4 are compulsory clauses and must be enforced strictly. The original “Quality Inspection and Assessment of Ventilation and Air-conditioning Installation” GBJ 304 - 88 and “Code for Construction and Acceptance of Ventilation and Air Conditioning Works” GB 50243 - 97 shall be abolished simultaneously.

This code shall administrated by the Ministry of Construction, who shall be responsible for the interpretation of mandatory clauses. Shanghai Installation Engineering Company Limited shall be responsible for the interpretation of the detail technical contents. Authorized by Research Institute of Standards & Norms, this code is published and distributed by China Planning Press.

Ministry of Construction of the People's Republic of China  
March 15, 2002

## Foreword

According to the requirements of Jian Biao [2001] No. 87 “Notice on Printing the Development and Revision Plan of National Engineering Construction Standards in 2000-2001” of the Ministry of Construction) this code was jointly developed by Shanghai Installation Engineering Company Limited and other relevant organizations after revising “Quality Inspection and Assessment of Ventilation and Air-conditioning Installation” GBJ 304-88 and “Code for Construction and Acceptance of Ventilation and Air Conditioning Works” GB 50243 - 97.

During the amendment, the code development team made a monographic study, carried out extensive and in-depth investigation, and summarized practical experience on the inspection and acceptance of construction quality of ventilation and air conditioning works over the years. Particularly, the engineering practice and experience since the implementation of GB 50243 - 97 were summarized and a thorough amendment was made on the original code on the principle of “separation of inspection from appraisal, strengthening acceptance, perfection of means and process control”. During the amendment, the team sought the comments of relevant units and trade experts in various ways, conducted discussion and demonstration about the quality indexes several times, revised the draft repetitively and finalized the version after review.

Main contents of this code include.

Applicable scope of this Code;

Unified guidelines for acceptance of construction quality of ventilation and air conditioning works.

Classification of portioned works and the sub-divisional works included for acceptance of construction quality of ventilation and air conditioning works.

According to the characteristics of construction of ventilation and air conditioning works, the divisional work is divided into 10 specific process items including air duct fabrication, duct accessory fabrication, air duct system installation, ventilation and air conditioning equipment installation, air conditioning refrigerating system installation, air conditioning water system installation, anti-corrosion and thermal insulation, system adjustments, completion acceptance and comprehensive efficiency testing and adjustment. Specific provisions are also given for the content of acceptance, quantity and method of inspection.

Quality acceptance records used for this divisional work is optimized according to the provisions of “Unified Standard for Constructional Quality Acceptance of Building Engineering” GB 50300-2001.

To ensure the operation effects of ventilation and air conditioning works and the completeness of construction quality acceptance, this Code has made provisions on the comprehensive efficiency testing and adjustment of the works.

Compulsory clauses in this Code.

The code may be amended partially in the future. Message of related revised parts and clauses will be publicized in the magazine of Standardization of Engineering Construction.

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

All relevant organizations are kindly requested to sum up and accumulate your experiences in actual practices during the process of implementing this code. The relevant opinions and advice,

whenever necessary, can be posted or passed on to Shanghai Installation Engineering Company Limited (Address: No. 390 Tanggu Road, Shanghai China Post Code: 200080, E-mail, kj@chinasiec.com) for reference in future amendment.

Chief compilation unit, participating units and main draftsmen of this code:

Chief Development Organization:

Shanghai Installation Engineering Company Limited

Participating Development Organizations:

Tongji University

Shanghai Architectural Design & Research Institute Ltd.

Shaanxi Equipment Installation Company

China Electronics Engineering Design Institute

Guangzhou Electro-mechanical Equipment Company Limited

Beijing Equipment Installation Company

China Building Science Research academy Air Conditioning Research Institute

Fujian Construction Engineering Quality Inspection Bureau

China Electronic System Engineering No. 2 Construction Company

Beijing Urban Construction No. 9 Construction and Installation Engineering Company Limited

Chief Drafting Staff:

Zhng Yaoliang Liu Chuanju Shou Weiwei Yu Zhengfu

Yao Shouxian Qin Xueli Chen Xiaowen He Weibin

Liu Yuanguang Peng Rong Lu Xiaomin Qin Liyang

Fu Chaofan

# Contents

<b>1</b>	General Provisions .....		9
<b>2</b>	Terms.....	错误！未定义书签。	
<b>3</b>	Basic Requirements.....	错误！未定义书签。	
<b>4</b>	Air Duct Fabrication.....	错误！未定义书签。	
	4.1 General Requirements .....	错误！未定义书签。	
	4.2 Dominant Items .....	错误！未定义书签。	
	4.3 Common Item.....	错误！未定义书签。	
<b>5</b>	Fabrication of Accessories and Mufflers for Air Duct .....	错误！未定义书签。	
	5.1 General Requirements .....	错误！未定义书签。	
	5.2 Dominant Items .....	错误！未定义书签。	
	5.3 General Items .....	错误！未定义书签。	
<b>6</b>	Installation of Air Duct System .....	错误！未定义书签。	
	6.1 General Requirements .....	错误！未定义书签。	
	6.2 Dominant Items .....	错误！未定义书签。	
	6.3 General Items .....	错误！未定义书签。	
<b>7</b>	Installation of Ventilation and Air Conditioning Units.....	错误！未定义书签。	
	7.1 General Requirements .....	错误！未定义书签。	
	7.2 Dominant Items .....	错误！未定义书签。	
	7.3 General Items .....	错误！未定义书签。	
<b>8</b>	Installation of Air Conditioning Refrigerating System.....	错误！未定义书签。	
	8.1 General Requirements .....	错误！未定义书签。	
	8.2 Dominant Items .....	错误！未定义书签。	
	8.3 General Items .....	错误！未定义书签。	
<b>9</b>	Installation of Pipes and Equipment of Air Conditioning Water System.....	错误！未定义书签。	
	9.1 General Requirements .....	错误！未定义书签。	
	9.2 Dominant Items .....	错误！未定义书签。	
	9.3 General Items .....	错误！未定义书签。	
<b>10</b>	Corrosion Prevention and Thermal Insulation .....	错误！未定义书签。	
	10.1 General Requirements .....	错误！未定义书签。	
	10.2 Dominant Items .....	错误！未定义书签。	
	10.3 General Items .....	错误！未定义书签。	
<b>11</b>	System Adjustment.....	错误！未定义书签。	
	11.1 General Requirements .....	错误！未定义书签。	
	11.2 Dominant Items .....	错误！未定义书签。	
	11.3 General Items.....	错误！未定义书签。	
<b>12</b>	Completion Acceptance .....	错误！未定义书签。	
<b>13</b>	Measurement and Adjustment of Comprehensive Efficiency .....	错误！未定义书签。	
<b>Appendix A Air Leak Check with Lighting and Air Leakage Rate Testing</b> .....		错误！未定义书签。	
<b>Appendix B Test Measures for the Clean Room</b> .....		错误！未定义书签。	
<b>Appendix C Tables for Construction Quality Acceptance Records</b> .....		错误！未定义书签。	

**Explanation of Wording in This Code.....**错误！未定义书签。



# 1 General Provisions

**1.0.1** This Code is formulated with a view to enhance building construction quality management, unify the acceptance of construction quality of ventilation and air conditioning works, and guarantee the construction quality.

**1.0.2** This Code is applicable to the acceptance of construction quality of ventilation and air conditioning works in building engineering.

**1.0.3** This Code shall be used in connection with the current national standard “Unified Standard for Constructional Quality Acceptance of Building Engineering” GB 50300-2001.

**1.0.4** The requirements for construction quality as set forth in the engineering technical documents and contract documents adopted in the construction of ventilation and air conditioning works shall not be lower than those specified in this Code.

**1.0.5** The acceptance of construction quality of ventilation and air conditioning works shall be in compliance with the current relevant national standards in addition to this Code.



北京文心雕语翻译有限公司  
Beijing Lancarver Translation Inc.

---

---

---

## 完整版本请在线下单

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email: [info@lancarver.com](mailto:info@lancarver.com)

<http://www.lancarver.com>

---

---

## 线下付款方式：

### 1. 对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

---

---

### 2. 支付宝账户：info@lancarver.com

---

---

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！

---



银联特约商户