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Unified Acceptance Standard for Building Construction Quality

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Issued on: November 1, 2013

Implemented on: June 1, 2014

Issued by: Ministry of Housing and Urban-Rural Development (MOHURD);

General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) of the People's Republic of China.

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

**Unified Acceptance Standard for Building
Construction Quality**

GB 50300-2013

Chief Development Department: Ministry of Housing and Urban-rural Development of
the People's Republic of China

Approval Department: Ministry of Housing and Urban-rural Development of the People's
Republic of China

Implementation Date: June 1, 2014

China Architecture and Building Press

Beijing 2013

**Announcement of Ministry of Housing and Urban-Rural
Development of the People's Republic of China**

No. 193

**Announcement of the Ministry of Housing and Urban-Rural
Development on Publishing the National Standard of "Unified
Acceptance Standard for Building Construction Quality"**

"Unified Acceptance Standard for Building Construction Quality" has been approved as a national standard with a serial number of GB 50300-2013, which will be implemented on June 1, 2014. Articles 5.0.8 and 6.0.6 of the Standard are compulsory and must be enforced strictly. The original "Unified Acceptance Standard for Building Construction Quality" (GB 50300 -2001) shall be abolished simultaneously.

Authorized by the Standard Rating Research Institute of our ministry, this Standard is published and distributed by China Architecture and Building Press.

Ministry of Housing and Urban-Rural Development of the People's Republic of China

November 1, 2013

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Foreword

According to the requirements of the document "Notice on Printing and Publishing 'Development and Revision Plan of Building Construction Standards and Specifications in 2007 (first batch)'" (Jian Biao [2007] No. 125) issued by the former Ministry of Construction, this Standard is formulated jointly by the China Academy of Building Research and organizations concerned, on the basis of the revised former "Unified Acceptance Standard for Building Construction Quality" (GB 50300-2001).

During the process of revising this Standard, the drafting group supplemented and improved the former standard by conducting extensive investigations and studies, earnestly summarizing the practical experience and allowing for the development requirements of building work field, and reviewed and finalized this Standard on basis of widely soliciting for opinions.

This Standard totally consists of 6 chapters and 8 appendixes with its main technical contents including General Provisions, Terms, Basic Requirements, Division of Acceptance of Building Construction Quality, Acceptance of Building Construction Quality, Procedure and Organization of Acceptance of Building Construction Quality, etc.

The main changes of this revision include:

- 1 The requirement that the sampling re-inspection and test quantity may be appropriately adjusted if the conditions are met was added.
- 2 The requirement for laying down specific acceptance requirements was added;
- 3 The required minimum sampling quantity for inspection lot was added;
- 4 Part project of building energy saving was added and so was sub-part project, e.g. aluminum structure and ground-source heat pump system;
- 5 The division of the sub-item project in part projects like main structure and building decoration was modified;
- 6 The signal and double sampling determination methods for normal inspection in the sampling scheme by attributes were added;
- 7 The requirement for pre- acceptance at completion of works was added;
- 8 The requirement that the investigation unit shall participate in unit project acceptance was added;
- 9 The requirement that appropriate entity inspection or sampling test shall be carried

out if construction quality control data are unavailable was added.

10 The requirement that inspection lot acceptance shall be provided with original record of site acceptance inspection.

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

Ministry of Housing and Urban-Rural Development is in charge of the administration of this Standard and the interpretation of the compulsory provisions. China Academy of Building Research is responsible for the explanation of specific technical contents. All relevant units are kindly requested to sum up and accumulate your experiences in actual practices during the process of implementing this Standard. The relevant opinions and advices, whenever necessary, can be posted or passed on to China Academy of Building Research (Address: No.30 North 3rd Ring East Road, Chaoyang District, Beijing; Postal code: 100013; E-mail: GB 50300 @ 163. com), for future reference in case of revision.

Chief development organization:

China Academy of Building Research

Participating development organizations:

Beijing Central Station for Supervision of Construction Engineering Safety Quality

China Xinxing Corporation (Group)

Beijing Construction Project Management Association

Beijing Urban Construction Group Co., Ltd.

Shenzhen Central Station for Supervision and Inspection of Construction Engineering Quality

Shenzhen Keyuan Construction Group Co., Ltd.

Zhejiang Baoye Construction Group Co., Ltd.

National Centre for Quality Supervision and Test of Building Engineering

Tongji Architectural Design (Group) Co., Ltd. (TJAD)

Chongqing Institute of Building Research

Financial Street Holding Co., Ltd.

Unified Acceptance Standard for Building Construction Quality

1 General Provisions

1.0.1 This Standard is prepared to strengthen the construction quality management, unify the construction quality acceptance of building work and guarantee the work quality.

1.0.2 This standard is applicable to the acceptance of building construction quality and serves as unified criteria for laying down the acceptance specifications of various construction disciplines.

1.0.3 The acceptance of building construction quality shall not only comply with this Standard but the current relevant standards of the nation.

2 Terms

2.0.1 Building work

It refers to the work entity formed through construction of various buildings and their auxiliary facilities, and installation of their supporting systems like cabling, piping and M&E equipment.

2.0.2 Testing

It refers to the activity in which the features and performances of the inspected item are measured, inspected and tested, and the results are compared with the requirements specified in standards so as to verify the acceptance of each performance.

2.0.3 Site testing

It refers to the activity to test the building materials, members and accessories, equipment and tools on construction site according to the requirements of relevant standards and to verify the compliance of their quality, specifications and models.

2.0.4 Evidential testing

It refers to the activity in which samples are, in accordance with the relevant requirements, randomly drawn from construction site by the construction organization in the presence of the supervision or development organization and then submitted to competent

testing organization for testing.

2.0.5 Re-testing

It refers to the activity in which, in accordance with the relevant requirements, samples are drawn from the on-site building materials and equipment, which have passed the appearance quality inspection and quality certificate verification, and submitted to laboratory for testing.

2.0.6 Inspection lot

It refers to the testing body which consists of a quantity of the samples collected for testing by the same production conditions or required method.

2.0.7 Acceptance

It refers to the activity in which, with the building quality passed the self-inspection of the construction organization, the party responsible for quality acceptance organize the construction organizations concerned to participate in the sampling inspection on the quality of inspection lot, sub-item, part and unit projects, and their concealed works, to review the technical documents and to verify in written form the compliance of the building quality to design documents and relevant standards.

2.0.8 Dominant item

It refers to the testing item of construction project which has decisive effects on the safety, energy saving, environmental protection and main using functions.

2.0.9 General item

It refers to the testing items other than the dominant.

2.0.10 Sampling scheme

It refers to the sampling quantity and method determined according to the characteristic of testing items.

2.0.11 Inspection by attributes

It refers to the inspection method in which the overall quality of samples is judged by the number of the unqualified individuals in the samples.

2.0.12 Inspection by variables

It refers to the inspection method in which the overall mean, characteristic or estimated

qualifications;

3 The quality of inspection lot shall be accepted according to dominant item and general item;

4 The test coupons, specimens and materials related to structure safety, energy saving, environmental protection and main using functions shall be subjected to evidential testing as required during admission or construction;

5 Before the concealment of concealed work, the construction unit shall inform the supervision unit of acceptance, which shall be documented, and the construction may be continued provided acceptance is passed;

6 The part project related to structure safety, energy saving, environmental protection and main using functions shall be subjected to sampling inspection as required before acceptance;

7 The building quality of appearance shall be site-inspected and validated jointly by acceptance personnel.

3.0.7 The qualification of building construction quality acceptance shall meet the following requirements:

1 Meeting the requirements of engineering investigation and design documents;

2 Meeting the requirements of this Standard and the acceptance specifications of related disciplines.

3.0.8 The quality inspection of inspection lot shall be selected from the following sampling schemes according to the characteristic of the testing items:

1 Sampling scheme of inspection by variables, by attributes or by variables and attributes;

2 Single, double or multiple sampling scheme;

3 Where quick and easy inspection method is available, for important testing items, one hundred percent inspection scheme may be adopted;

4 Adjusted sampling scheme may be adopted according to the production continuity and production control stability;

5 Sampling scheme which is justified by practice.

3.0.9 The samples of inspection lot shall be randomly taken so as to meet the requirements

- 2 The quality acceptance records of all the included inspection lots shall be intact.

5.0.3 The qualified requirements for part project quality acceptance are as follows:

- 1 The quality of all the included sub-item projects shall be accepted;
- 2 The quality control data shall be intact;
- 3 The results of all sampling inspections related to safety, energy-saving, environment protection and main use function shall meet the corresponding requirements;
- 4 The appearance quality shall meet the requirements.

5.0.4 The qualified requirements for unit project quality acceptance are as follows:

- 1 The quality of all the included part projects shall be accepted;
- 2 The quality control data shall be intact;
- 3 For the included part projects, the inspection data related to safety, energy-saving, environment protection and main use function shall be intact;
- 4 The random inspection results of primary use function shall be in accordance with those specified in the relevant professional acceptance specification;
- 5 Appearance quality shall meet the requirements.

5.0.5 The records of construction quality acceptance of building work may be filled in according to the following requirements:

- 1 The quality acceptance record of inspection lot may be filled in according to Appendix E of this Standard and original record of site acceptance inspection shall exist in the filling;
- 2 Quality acceptance records of sub-item project may be filled in according to Appendix F of this Standard;
- 3 Quality acceptance records of part project may be filled in according to Appendix G of this Standard;
- 4 Records of unit project quality completion acceptance, quality control data examination, safety and function inspection data examination, main function random inspection record and appearance quality inspection shall be filled in according to Appendix H of this Standard.

energy-saving.

6.0.4 After the completion of subcontract project in unit projects, the subcontractor shall carry out self-inspection for the contracted project and conduct acceptance inspection according to the procedure specified in this Standard. In the acceptance, general contracting unit shall send someone to participate in. The subcontractor shall make the quality control data of the subcontracted work complete and turn over to general contracting unit.

6.0.5 After the completion of unit project, construction unit shall organize relevant personnel to conduct self-inspection. General supervision engineer shall organize supervision engineers from various professions to conduct completion pre-acceptance for the work quality. If there exists construction quality problem, rectification and reform shall be carried out by construction unit. The construction unit shall submit project completion report to development unit after the rectification and reform finished and apply completion acceptance.

6.0.6 After receiving the project acceptance report, the project director from development unit shall organize unit project leaders from supervision, construction, design, exploration, etc. for the unit project acceptance.

Appendix A Records of Quality Management Inspection in Construction Site

Table A Records of Quality Management Inspection in Construction Site

Work Project name			Construction license No.		
Construction unit			Project director		
Design unit			Project director		
Supervision unit			General supervision engineer		
Construction unit		Project director	Project technical director		
No.	Item	Main content			
1	Quality management system of project department				
2	On-site quality responsibility system				
3	Operation and post certificate of main professional works				
4	Management system of subcontractors				
5	Joint review records of drawings				
6	Geological exploration information				
7	Technical standard for construction				
8	Construction organization design, construction scheme preparation, examination and approval				
9	Material procurement management system				
10	Management system of construction facilities and mechanical equipment				
11	Metering equipment allocation				
12	Inspection of test management system				
13	Work quality inspection & acceptance system				
14					
Self-inspection result:			Inspection conclusion:		
Project director of construction organization: Date:			General supervision engineer: Date:		

Appendix H Records of Unit Project for Quality Completion

Acceptance

H.0.1 Quality completion acceptance of unit project shall be recorded according to Table H.0.1-1; examination of quality control data and major functions of unit project shall be recorded according to Table H.0.1-2; data examination of safety and function inspection of unit project shall be recorded according to Table H.0.1-3; and inspection for unit project quality of appearance shall be recorded according to Table H.0.1-4.

H.0.2 In Table H.0.1-1, the acceptance record is filled in by construction unit and the acceptance conclusion is filled in by supervision unit. Comprehensive acceptance conclusion shall be agreed by each party that participate in the acceptance and filled by the development unit. The project quality shall be evaluated to see if it meets the design document and relevant standard requirements as well as the overall quality level.

Table H.0.1-1 Records of Unit Project for Quality Completion Acceptance

Project name		Structure type	Number of storey / building area	
Construction unit		Technical director	Commencement date	
Project director		Project technical director	Completion date	
No.	Items	Acceptance record		Acceptance conclusion
1	Part project acceptance	___ parts in total, ___ parts conforming to the design and standard requirements via inspection		
2	Quality control data examination	___ items in total, ___ items conform to the requirements via examination		
3	Inspection and random inspection results of safety and using functions	___ items inspected in total, ___ items conforming to the requirements; ___ items randomly inspected in total, ___ items conforming to the requirements; ___ items conforming to the requirements via rework treatment		
4	Appearance quality acceptance	___ items randomly inspected in total, ___ items reaching "Good" and "General", ___ items conforming to the requirements via repair treatment		
Comprehensive acceptance conclusion				
Participating acceptance	Development unit	Supervision unit	Construction units	Design unit
	(Official seal)	(Official seal)	(official seal)	(official seal)
		Survey unit		(official seal)

			general points; ___ poor points	
5		Indoor wall surface	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
6		Indoor ceiling	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
7		Indoor floor	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
8		Stair, foot step and guardrail	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
9		Doors and windows	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
10		Canopy, foot steps, ramp and wash apron	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
1	Water supply & drainage and heating	Pipe joint, slope and support	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
2		Sanitary ware, support and valve	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
3		Inspection hole, sweeping hole and floor drain	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
4		Radiator and support	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
1	Ventilation and air-conditioning	Air duct and support	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
2		Tuyere and air valve	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
3		Fan and air-conditioning equipment	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
4		Pipeline, valve and support	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
5		Water pump and cooling tower	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
6		Thermal insulation	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
1	Architecture Building electric	Distribution box, panel, board and junction box	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
2		Equipment instrument, switch and socket	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	
3		Lightning protection, grounding and fire prevention	___ points inspected in total; ___ good points ; ___ general points; ___ poor points	

Explanation of Wording in This Standard

1 Words used for different degrees of strictness are explained as follows in order to mark the differences in executing the requirements in this standard:

1) Words denoting a very strict or mandatory requirement:

"Must" is used for affirmation, "must not" for negation;

2) Words denoting strict requirement under normal conditions:

"Shall" is used for affirmation, "shall not" for negation;

3) Words denoting a permission of a slight choice or an indication of the most suitable choice when conditions permit:

"Should" is used for affirmation; "should not" for negation;

4) "May" is used as word denoting a permission of choice or an indication of the most suitable choice when conditions permit.

2 "Shall comply with..." or "Shall meet the requirements of..." is used in this code to indicate that it is necessary to comply with the requirements specified in other relative standards and specifications.

_____ **END** _____

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