



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

GB 50206-2012

**Code for acceptance of construction quality of timber
structures**

(English Translation)

Issued on: March 30, 2012

Implemented on: August 1, 2012

Issued by: Ministry of Housing and Urban-Rural Development of the

Table of Contents

Foreword	
1 General Provisions	
2 Terms	
3 Basic Requirements	
4 Rough Sawn and Round Timber Structure	
4.1 General Requirements	
4.2 Dominant Items	
4.3 General Items	
5 Glued-laminated Timber Structure	
5.1 General Requirements	
5.2 Dominant Items	
5.3 General Items	
6 Light Wood Frame Construction	
6.1 General Requirements	
6.2 Dominant Items	
6.3 General Items	
7 Protection of Timber Structure	
7.1 General Requirements	
7.2 Dominant Items	
7.3 General Items	
8 Acceptance of Sub-subsection Project of Timber Structure	
Appendix A Timber Strength Grade Inspection Method	
Appendix B Standard for Materials of Rough Sawn Timber, Log and Panel	
Appendix C Inspection Method for Moisture Content of Timber	
Appendix D Bending Test of Steel Nail	
Appendix E Allowable Error for Manufacture and Installation of Wood Structure	
Appendix F Test Method for Mechanical Property of Bending Wood Members	

1.0.1 This code is formulated with a view to strengthening the quality management

of construction work, unifying the construction quality acceptance of timber work and guaranteeing the project quality.

1.0.2 This code is applicable to the construction quality acceptance for timber

structure works like rough sawn and round timber structure, glued-laminated timber structure and light wood frame construction.

1.0.3 The construction quality acceptance of timber structure work shall be based on engineering design document. The requirements of construction quality acceptance in design document and engineering contracting contract shall not be lower than those specified in this code.

1.0.4 This code shall be used together with the current national standard "Unified

Standard for Constructional Quality Acceptance of Building Engineering" (GB 50300).

1.0.5 The construction quality acceptance for timber structure work shall not only meet the requirements in this code, but also comply with those specified in the current relevant ones of the nation.

2.0.1 Rough sawn and round timber structure

Load bearing member structure manufactured from rough sawn timber (including slab) or log.

2.0.2 Glued-laminated timber structure

Load bearing member structure manufactured from glued-laminated timber.

2.0.3 Light wood frame construction

Wood structure composed of shear wall and tabula (floor system and roof) manufactured from dimension lumber and wood-based structural panel through nailed connection, generally used for 1~3F buildings.

2.0.4 Dimension lumber

A kind of wood product made through drying, polishing, grading and stamping on a series of log sawn timber with section width and height within certain limits.

3 Basic Requirements

3.0.1

The constructor of timber structure work shall have corresponding qualification, complete quality management system, quality inspection system and overall quality assessment system.

The quality management of construction site may be inspected and recorded according to the relevant requirements of the current national standard "Unified Standard for Constructional Quality Acceptance of Building Engineering" (GB 50300).

3.0.2 Sub-subsection project of timber structure shall be composed of two subitem

projects. namely manufacture & installation of timber structure and protection of timber structure. Acceptance for sub-subsection project is carried out after that for two subitem projects.

3.0.3 Inspection lot shall be respectively classified according to the quality control

for physical and mechanical performance of material, wood product, member and accessory and the quality control of manufacture and installation of structural member.

3.0.4 For the protection work of wood structures, the wood preservation construction quality shall be accepted according to different use environment as specified in Table

4.2 Dominant Items

4.2.1

The type, structural arrangement and member size of rough sawn and round timber structure shall meet the requirements of the design document.

Inspection quantity. total number of inspection lot.

Inspection method. comparison between physical object and construction design drawing; measurement.

4.3 General Items

4.3.1

The allowable deviation for the manufacturing of various log and rough sawn timber members shall not exceed the requirements of Table E.0.1 in this code.

Inspection quantity. total number of inspection lot.

Inspection method. see Table E.0.1 in this code.

4.3.3

The bolt quantity, arrangement mode, spacing, edge distance and end distance of bolted connection (including tension joint) shall not only meet the requirements of the design document, but also meet the following requirements.

4.3.6

The allowable deviation for installation of timber truss, beam and column shall not exceed the requirements of Table E.0.2 in this code.

4.3.7

The allowable deviation for installation of roof timber frame shall not exceed the requirements of Table E.0.3 in this code.

4.3.8

The integrity of roof structure support system shall meet those specified in design document.

5.1.1 This chapter is applicable to the acceptance of construction quality of timber

structure with main load bearing member manufactured and installed with glued-laminated timber.

5.2 Dominant Items

5.2.1

The structure type, structural arrangement and member section size shall meet the requirements of the design document.

Inspection quantity. total number of inspection lot.

Inspection method. comparison between physical object and design document;
measurement.

5.2.5

The average moisture content of glued-laminated timber member shall not be greater than 15%, the difference of moisture content of each lamination of the same member shall not be greater than 5%.

5.2.6

The quality of steel, electrode, bolt and nut shall respectively meet the requirements of Articles 4.2.6~4.2.8 in this code.