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Bamboo structures — Bamboo culms — Structural design

Structures en bambou — Tiges de bambou — Conception des structures



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Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols and abbreviated terms	4
5 Basic requirements of design	6
5.1 General.....	6
5.2 Design methodology.....	7
5.3 Susceptibility to splitting.....	7
5.4 Redundancy.....	7
5.4.1 Non-redundant structural members.....	7
5.4.2 Redundant structural members.....	7
5.5 Serviceability considerations.....	8
5.6 Service classes.....	8
5.6.1 Service class 1.....	8
5.6.2 Service class 2.....	8
5.6.3 Service class 3.....	8
5.7 Durability.....	8
5.7.1 Use classes.....	9
5.7.2 Resistance to corrosion of metallic elements.....	10
5.8 Effects of elevated temperature.....	10
5.9 Maintenance, inspectability and replacement considerations.....	10
5.10 Seismic force reduction factor for bamboo structures.....	10
5.11 Alternate design methodologies.....	10
5.11.1 Partial safety factor design (PSFD) or load and resistance factor design (LRFD) methodology.....	10
5.11.2 Experience from Previous Generations.....	10
5.11.3 Design by testing.....	11
6 Member component and material properties	11
6.1 General.....	11
6.2 Characteristic material and component properties.....	12
6.3 Allowable member design capacity.....	12
6.4 Allowable design strength.....	13
6.4.1 Culm geometry for use with allowable design strength.....	14
6.5 Component flexural stiffness.....	15
6.6 Modulus of elasticity.....	15
7 Structural modelling bamboo structures	15
8 Flexural members (beams)	16
8.1 General.....	16
8.2 Multiple culm flexural members.....	16
8.2.1 Bracing requirements for multiple culm flexural members.....	17
8.3 Flexural member capacity.....	17
8.3.1 Flexural capacity determined from component capacity.....	17
8.3.2 Flexural capacity determined from bending strength.....	18
8.4 Calculation of deflection.....	18
8.4.1 Flexural stiffness determined from component properties.....	19
8.4.2 Flexural stiffness determined from material and geometric properties.....	19
8.4.3 Long term deflections.....	19
9 Axial load carrying members	19
9.1 General.....	19

This is a preview of "ISO 22156:2021". [Click here to purchase the full version from the ANSI store.](#)

9.2	Compression member effective length.....	20
9.2.1	Lateral restraint of compression members.....	20
9.3	Compression capacity.....	21
9.3.1	Compression capacity from geometric and material properties.....	21
9.3.2	Crushing capacity.....	21
9.3.3	Buckling capacity.....	22
9.4	Tension capacity.....	22
9.4.1	Tension capacity from component capacity.....	22
9.4.2	Tension capacity from geometric and material properties.....	23
9.5	Combined axial and flexural loads.....	23
10	Joints and splices.....	23
10.1	General.....	23
10.2	Design properties by complete joint testing.....	24
10.3	Design properties by component capacities.....	24
10.4	Allowable joint design capacity.....	24
10.5	Joint stiffness.....	25
10.6	Ductility of joints.....	25
10.7	Robustness against culm splitting.....	25
10.7.1	Radial clamping to resist splitting.....	26
10.8	Splices joints.....	26
10.9	Requirements for non-bamboo components of joints.....	26
10.9.1	Metallic components of joints.....	26
10.9.2	Joints utilising flowable infill material (grouted joints).....	26
10.9.3	Lashing.....	27
10.9.4	Mechanical and proprietary joint systems.....	27
10.10	End bearing capacity of bamboo culms.....	27
10.11	Circumferential bearing capacity of bamboo culms.....	27
10.12	Joints having through culm wall dowels.....	29
10.12.1	Capacity of single dowel.....	29
10.12.2	Requirements for dowels.....	31
10.12.3	Tension forces on dowel joints.....	31
11	Trusses.....	31
12	Shear panels (walls).....	32
12.1	General.....	32
12.1.1	Openings in panels.....	32
12.2	Loads.....	33
12.2.1	Out-of-plane loads.....	33
12.2.2	In-plane loads.....	34
12.2.3	Gravity loads.....	35
12.3	Determination of design strengths.....	35
13	Fire resistance.....	36
14	Structural grading.....	36
15	Quality assessment and control.....	36
Annex A (informative) Bases of provisions in this document.....		37
Annex B (informative) Durability and preservation recommendations.....		38
Annex C (informative) Examples of seismic and alternative design factors.....		40
Annex D (informative) Examples and classification of bamboo connections and joints.....		41
Annex E (informative) Design of LCBF components to satisfy requirements of 12.....		45
Bibliography.....		48

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 165, *Timber structures*

This second edition cancels and replaces the first edition (ISO 22156:2004), which has been technically revised.

The main changes compared to the previous edition are as follows:

- adoption of design equations for material or component capacities for both members and joints;
- adoption of service classes and specific consideration of susceptibility to splitting;
- addition of Light Cement Bamboo Frame (LCBF) construction;
- addition of informative annexes addressing durability and representative details for connections and LCBF construction;
- removal of use of bamboo for reinforcing concrete or soil.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document provides a means of structural design for one- and two-storey building structures using full-culm round bamboo poles as the primary vertical and horizontal structural load resisting systems. This document addresses connection design, light cement bamboo frame shear panel design, and addresses issues of durability. Informative annexes provide means of achieving design and performance goals in these areas.