

ICS 79.060.99  
CCS B 70

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

**LY/T 2484-2015**

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**General technical requirements of liquied bamboo foamed  
composites**

竹材液化发泡工程材料通用技术要求

**(English Translation)**

**Issued on: January 27, 2015**

**Implemented on: May 1, 2015**

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**Issued by: State Forestry Administration**

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Bamboo and Rattan Standard Technical Committee (SAC/TC263).

This standard was drafted. Zhejiang Academy of Forestry, Zhejiang Anji Liangyue Board Co., Ltd., International Bamboo and Rattan Center, Anji County Quality Technical supervision and testing center, Zhejiang forest product quality testing station.

### Introduction

The bamboo liquefaction foaming engineering material is a new type of organism made from bamboo and its processing residues as the main raw materials through liquefaction and foaming processes.

The principle of quality engineering materials is to convert bamboo processing residues into alternatives by macromolecular dismemberment, catalytic degradation and molecular recombination techniques.

Small reactive molecules with high reactivity in petrochemical feedstocks, which are then repolymerized to form thermosetting resins and have different properties under specific conditions.

The foaming engineering material, the new engineering material is a new lightweight high-strength wall project supported and successfully developed by major science and technology in Zhejiang Province.

The material is light, high strength, shock-resistant cushioning, thermal insulation, sound insulation, noise reduction, flame retardant and environmental protection, etc., thus becoming the first direct Lightweight high-strength engineering materials prepared by liquefaction foaming of bamboo in the construction field.

The issuing authority of this document draws attention to the fact that when the statement conforms to this document, it may involve "a foaming process using bamboo liquefied product resins".

Use of the method of the material" (Patent No.. ZL201210047140.5).

The issuing organization of this document has no position on the authenticity, validity and scope of the patent.

The holder of the patent has assured the issuing authority of this document that it is willing to work with any applicant on reasonable and non-discriminatory terms and conditions.

Negotiate on patent licenses. The patent holder's statement has been filed with the issuing authority of this document. Related information can be passed the following Contact information obtained.

Name of patent holder. Zhejiang Forestry Research Institute, Liu Legun.

Address. No. 399, Liuhe Road, Xihu District, Hangzhou, Zhejiang, China.

Postal code. 310023.

Fax. 0571-87798215.

Tel. 0571-87798215.

Email. lq234@sina.com.

Please note that in addition to the above patents, some of the contents of this document may still involve other patents. The issuing agency of this document does not undertake to recognize this the responsibility of some patents.

General technical requirements for bamboo liquefaction foaming engineering materials

## 1 Scope

This standard specifies the terms and definitions, classification, technical requirements, test methods, inspection rules and markings of bamboo liquefied foaming engineering materials.

Packaging, transportation and storage requirements.

This standard is applicable to engineering materials made by crushing, liquefying, foaming and other processes using bamboo and its processing residues as the main raw materials.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2406.2 Determination of combustion behaviour by oxygen index method Part 2. Room temperature test GB/T 2828.1-2012. Sampling procedures for sampling by sampling - Part 1 . Batch-by-batch inspections by Retrieving Quality of Acceptance (AQL) plan GB/T 6343 Determination of apparent density of foams and rubber Rubber and plastics -- Determination of flexural properties - Part 2. flexural strength and surface flexural modulus Determination GB/T 10294 Thermal insulation material thermal insulation resistance and related characteristics determination GB/T 15104-2006 decorative veneer veneered wood-based panel GB/T 16731 Sound absorption performance classification of building sound absorbing products GB/T 17657-2013 Test method for physical and chemical properties of wood-based panels and veneered panels GB/T 18696.2 Measurement of sound absorption coefficient and acoustic impedance - Part 2. Transfer function method GB/T 19367-2009 Determination of the size of wood-based panels GB/T 19889.3 Acoustics and building construction - Sound insulation measurements - Part 3. Laboratory measurements of building acoustic sound insulation GB/T 50121 Building sound insulation evaluation standard

### 3 Terms and definitions

The following terms and definitions apply to this document.

Liquefied bamboo product liquefiedbamboo A liquid highly active small molecule material obtained by passing a bamboo and its processing residue through a liquefaction process.

Expandable resin foamableresin A liquefied product resin with foaming properties.

Bamboo liquefied foaming engineering material liquefiedbamboofoamedcomposite Lightweight high-strength engineering materials made from bamboo and its processing residues as main raw materials through pulverization, liquefaction and foaming.