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

LY/T 3197-2020

**Technical regulations for carbon accounting of bamboo
products**

竹材制品碳计量规程

(English Translation)

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Foreword

This standard is compiled in accordance with the provisions of GB/T 1.1-2009.

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

Drafting organizations of this standard. International Center for Bamboo and Rattan, Department of Ecological Protection and Restoration, National Forestry and Grassland Administration, Forest Health Research Institute of Ecological Environment and Protection, Chinese Academy of Forestry Research Institute of Forestry, Hebei Agricultural University.

Introduction

Assuming that the carbon emission of bamboo products is a first-order decay function (that is, the constant ratio of the annual loss of bamboo products to its carbon storage) Carbon reserves left in "bamboo products in use". When compiling the bamboo national greenhouse gas inventory, the production method is used to calculate the carbon change of bamboo products, the export of bamboo products is regarded as carbon emission, and the import of bamboo products is regarded as carbon absorption. When the bamboo products are finally consumed in the importing country to waste decomposition, their carbon Emissions are included in the country where the product is consumed. Assuming that the bamboo products produced in the current year will begin to attenuate and release from the next year, the annual attenuation ratio is fixed, and the decomposition the rate is equal to the reciprocal of the service life, and the service life of various bamboo products depends on the specific product use.

Carbon metering regulations for bamboo products

1 Scope

This standard specifies terms, definitions, classifications and measurement methods related to the carbon storage measurement of bamboo products in use.

This standard is applicable to the measurement of carbon storage of various bamboo products.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/15780-1995 Bamboo physical and mechanical properties test method
LY/T 2608-2016 Bamboo Product Classification

3 Terms and definitions

The following terms and definitions apply to this document.

Bamboo products

Products made with bamboo as the main raw material.

Lifespan

Refers to the period from the production of the final product to the normal use or usable state before being recycled or processed. It is the use time or average of the product.

Both use time.

Carbon stock

The amount of carbon storage of a certain bamboo product in the product library.

Carbon stock-change

The amount of change in the carbon storage of bamboo products during use or storage for a period of time.

Decay rate

The ratio of the annual loss of bamboo products due to wear or natural decomposition during use or storage to its carbon storage, its value, etc.

It is the reciprocal of service life.

4 Classification of bamboo products

Refer to LY/T 2608-2016, and select the main categories that have a substantial contribution to carbon storage based on the difference in service life.

It is raw bamboo, board, bamboo charcoal for adsorption, bamboo paper or cardboard, and bamboo daily necessities.

5.1 Raw bamboo

The annual change of in-use raw bamboo carbon storage is calculated according to formula (1).

5.2 Bamboo board

The annual change in the carbon storage of bamboo boards in use is calculated according to formula (5).

5.3 Bamboo charcoal, bamboo paper, cardboard and bamboo daily necessities

The annual change of carbon storage of bamboo charcoal in use, bamboo paper, cardboard and bamboo daily necessities is calculated according to formula (9).

M--Added bamboo charcoal, bamboo paper, cardboard and bamboo daily necessities weight, tons of carbon;

w--Add bamboo charcoal, bamboo paper, cardboard and bamboo daily necessities for moisture content, see Appendix B;

alpha--Added bamboo charcoal, bamboo paper, cardboard and bamboo daily necessities for carbon content, see Appendix B.

The carbon loss of bamboo charcoal, bamboo paper, cardboard and bamboo daily necessities in the year is calculated according to formula (11).

Appendix A

(Informative appendix) Service life of bamboo products BB Appendix B (Informative appendix) Conversion coefficient of bamboo products