



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

GB/T 4892-2021

Dimensions of rigid rectangular transport packages

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Foreword

This Standard was drafted in accordance with the rules provided in GB/T 1.1-2009.

This Standard serves as a replacement of GB/T 4892-2008 Dimensions of Rigid Rectangular

Packages - Transport Packages.

In comparison with GB/T 4892-2008, the main changes are as follows:

---Terms and Definitions is added (see Chapter 3);

---"Chapter 3 Principle" of GB/T 4892-2008 is modified into "Chapter 4 Calculation Principles for Plan Dimensions of Transport Packages" (see Chapter 4; Chapter 3 of Version 2008);

---It is added that the plan dimensions of transport packages shall be obtained by arranging the packaging modular dimensions (see Chapter 4);

---600 mm × 500 mm transport packaging modular dimension is added (see Chapter 5);

---The content of Chapter 5 of GB/T 4892-2008 is modified into the provisions in Table 1 of Chapter 6 (see Chapter 6; Chapter 5 of Version 2008);

---The "multiple" in No. 1 of Table 1 in Chapter 6 of GB/T 4892-2008 is modified into the "plan dimensions of the transport packaging arranged by the modular dimension of transport packages" (see Chapter 6; Chapter 6 of Version 2008);

---The plan dimension of the 1,200 mm × 800 mm unit loads calculated based on the 600 mm × 400 mm modular dimension of transport packages is added (see Chapter 6);

---The plan dimension of the 1,200 mm × 1,000 mm unit loads calculated based on the 600 mm × 500 mm modular dimension of transport packages is added (see Chapter 6).

This Standard uses the re-drafting method to modify and adopt ISO 3394:2012 Packaging - Complete, Filled Transport Packages and Unit Loads - Dimensions of Rigid Rectangular Packages.

In comparison with ISO 3394:2012, the technical differences and the causes for these differences are as follows:

---In terms of Normative References, this Standard makes adjustments with technical differences to adapt to the technical conditions of China. The adjustments are intensively reflected in Chapter 2 "Normative References". See the specific adjustments below:

× GB/T 4122.1 is used to replace ISO 21067;

× ISO 6780 is deleted.

---Since load expansion is not involved in this Standard, the term "load expansion" is deleted;

---In order to main consistency with the provisions of GB/T 4892-2008, the modular dimension specified in Chapter 1 of ISO 3394:2012 are modified into Chapter 5;

---Since the 600 mm × 400 mm modular dimension of transport packages can only be arranged to form a 1,200 mm × 1,000 mm unit loads plan dimension, No. 3 in Table 1 of Chapter 6 is modified into "transport package plan dimensions arranged by transport package modular dimensions" (see Chapter 6; Chapter 6 of Version 2008);

---Since the 1,100 mm × 1,100 mm plan dimensions cannot be fully utilized in the arrangement of 600 mm × 500 mm transport package modular dimension into the transport package plan dimension of 1,100 mm × 1,100 mm unit loads plan dimension, which does not comply with the calculation principles, the transport package plan dimension of 1,100 mm × 1,100 mm unit loads plan dimension arranged and formed

by the 600 mm ? 500 mm transport package modular dimension and its arrangement illustrations are deleted (including Figure 6);

---Since Figure 5 and Figure 7 respectively have arrangement illustrations in Figure 2 and Figure 4, Figure 5 and Figure 7 are deleted;

---Since the content specified in Chapter 7 is inconsistent with the title of the Chapter, Chapter 7 is deleted, and the content is incorporated into Chapter 6;

---Since the stacking example shown in the two figures on the right side of informative appendix A is not the stacking example drawing of two layers forming the same unit loads size, the informative appendix A is deleted.

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee 49 on Packaging of Standardization Administration of China (SAC/TC 49).

The drafting organizations of this Standard: China Academy of Transportation Science; MYS

Group Co., Ltd.; China Federation of Logistics & Purchasing (CFLP); Xiamen Changsu Industrial Co., Ltd.; Zhongbao Packaging Research Institute Co., Ltd.; Dali Prefecture Xiangyun Dayu Packaging Co., Ltd.

1 Scope

This Standard specifies the calculation principles of plan dimensions, transport package modular dimensions, transport package plan dimensions and transport package height dimensions of rigid rectangular transport packages.

This Standard is applicable to transport packages for highway, railway and waterway transport

unit loads. The transport packages of non-unit loads may take this as a reference.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the

modifications) is applicable to this document.

GB/T 4122.1 Packaging Terms - Part 1: Basic

3 Terms and Definitions

The terms and definitions defined in GB/T 4122.1 and the following are applicable to this document.

3.1 plan dimensions

A rectangular dimension formed on a horizontal plane by four vertical planes that perpendicularly intersect each other on the horizontal plane. These four vertical planes can accommodate transport packages freely placed on the horizontal plane, see Figure 1.

Figure 1 -- Plan Dimensions

4 Calculation Principles of Plan Dimensions of Transport

Packages

The plan dimensions of transport packages shall be calculated by arranging the modular dimensions of transport packages or multiplying or dividing the modular dimensions of transport packages by an integer.

5 Modular Dimensions of Transport Packages

The modular dimensions of transport packages are: 600 mm ? 400 mm, 600 mm ? 500 mm and

6 Plan Dimensions of Transport Packages

The plan dimensions of transport packages shall be the maximum plan dimensions of the filled

transport packages. In accordance with the calculation principles in Chapter 4, the plan dimensions of transport packages of 1,200 mm ? 800 mm and 1,200 mm ? 1,000 mm unit loads

formed by 600 mm ? 400 mm package modular dimension are shown in Table 1, and their arrangement mode is shown in Figure 2. The plan dimension of transport packages of 1,200