



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

GB/T 40481-2021

**Dimensions and performance requirements of general-purpose
slip sheet pallets for through transit of goods**

Issued on: August 20, 2021

Implemented on: March 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Composition and name	2
5 Structure, material code and loading quality	3
6 Material	6
7 size	6
8 Performance requirements	7
9 Test	7
Appendix A (informative) Structural changes of this document compared with ISO 12776.2008	10
Reference	11

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document uses the redrafting method to modify and adopt ISO 12776.2008 "Pallet Skateboard Pallet".

Compared with ISO 12776.2008, this document has many adjustments in structure. This document and ISO 12776 are listed in Appendix A.

The.2008 chapter number change comparison list.

The technical differences between this document and ISO 12776.2008 and the reasons are as follows.

---Regarding normative reference documents, this document has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

- * Replace ISO 6780 (see 7.1) with GB/T 2934 modified to adopt international standards;
- * Replace ISO 1924-2 (see 9.2.1.1) with GB/T 12914 modified to adopt international

standards;

- * Replace ISO 3676 with GB/T 15233 modified to adopt international standards (see 7.1);
- * Replace ISO 527-1 (see 9.2.1.1) with GB/T 1040.1 equivalent to the international standard;
- * Replace ISO 445.1996 with GB/T 3716-2000 equivalent to the international standard (see 3.2, 3.3, 3.4, 3.5, 3.13);
- * Added reference to GB/T 6544 (see 6.1.1);
- * Added reference to GB/T 10006 (see 9.2.4);
- * Added reference to GB/T 22895 (see 9.2.4).

---Regarding terms and definitions, this document has made adjustments with technical differences to meet the requirements of this document, and the adjustments are concentrated

Reflected in Chapter 3 "Terms and Definitions", the specific adjustments are as follows.

- * Deleted the term "depth";
- * Deleted the term "corrugated cardboard";
- * Deleted the term "disposable skateboard tray";
- * Deleted the term "frontal width";
- * Deleted the term "length";
- * Deleted the term "laminated wing panel";
- * Deleted the term "nominal size";
- * Deleted the term "width";
- * Deleted the term "recyclable skateboard tray";
- * Deleted the term "repeated skateboard tray";
- * The terms and definitions of "basic size of skateboard tray" have been added (see 3.8).

---The 5.1.1 overview, 5.2.1 overview and 6.1.1 overview of ISO 12776.2008 have been deleted to comply with my country's national standards

Require.

---The definition of corrugated board type in 6.1.2 of ISO 12776.2008 is deleted, and the corrugated board type is in GB/T 6544

There have been regulations, so I won't repeat them in this document.

---Added a note about the plane size of the unit cargo (see 7.1), which is conducive to choosing a suitable skateboard pallet plane size to adapt to different objects

Flow packaging requirements.

---Increase the size and tolerance inspection method (see 9.1) to increase operability.

---Modified the tensile strength test method of the skateboard tray (see 9.2.1), which is conducive to obtaining stable and correct test results.

---The rigidity test method of the skateboard tray (see 9.2.2) and the friction characteristic test method (see 9.2.4) have been added, which is conducive to obtaining a stable positive

Accurate test results.

---The 9th and 10th chapters of ISO 12776.2008 have been deleted, which adapts to the name and scope of this document.

---Added references.

This document has made the following editorial changes.

---Revised the standard name to "Dimensions and Performance Requirements for Intermodal Skateboard Pallets";

---The introduction of the international standard has been deleted.

1 Scope

This document specifies the composition and name, structure, material code, loading quality, material, size, performance requirements and test.

This document applies to the combination of products and goods into unit goods and the use of forklifts with push-pull devices for loading, unloading, transportation and storage

The design, production, inspection and use of general-purpose skateboard pallets for intermodal transportation.

2 Normative references

The content in the following documents provides normative references in the text and constitutes an indispensable clause of this document. Among them, all dated quotes

Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable.

Used in this document.

GB/T 1040.1 Determination of tensile properties of plastics Part 1.General (GB/T 1040.1-2018, ISO 5227-1.2012,

IDT)

Main dimensions and tolerances of GB/T 2934 intermodal general flat pallets (GB/T 2934-2007, ISO 6780.2003, MOD)

GB/T 3716-2000 Pallet Terminology (ISO 445.1996, IDT)

GB/T 6544 corrugated cardboard

GB/T 10006 Method for determination of friction coefficient of plastic film and sheet

GB/T 12914 Determination of Tensile Strength of Paper and Paperboard Constant Speed Tensile Method (20mm/min) (GB/T 12914-2018,

ISO 1924-2.2008, MOD)

GB/T 15233 packing unit cargo size (GB/T 15233-2008, ISO 3676.1983, MOD)

GB/T 22895 Determination of static and dynamic coefficient of friction of paper and paperboard by plane method

3 Terms and definitions

The following terms and definitions defined in GB/T 3716-2000 apply to this document.

3.1

Skateboard tray slipsheet

A flat plate with wings on one or more sides, used for handling, stacking, storing or transporting goods or products in the form of unit loads

Floor.

3.2

Load surface

The part of the skateboard pallet that bears the unit cargo and product quality.

[Source. GB/T 3716-2000, A2.1, with modification]

3.3

Wing tab

The skateboard pallet extends beyond the size of the unit cargo, which is convenient for handling with a push-pull device with a gripper.

[Source. GB/T 3716-2000, A2.3, with modification]