

INTERNATIONAL STANDARD

ISO
6780

First edition
1988-12-15



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

General-purpose flat pallets for through transit of goods — Principal dimensions and tolerances

*Palettes d'usage général pour le transport de marchandises — Dimensions principales
et tolérances*

Reference number
ISO 6780: 1988 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6780 was prepared by Technical Committee ISO/TC 51, *Pallets for unit load method of materials handling*.

Annex A of this International Standard is for information only.

Introduction

The overall dimensions specified in this International Standard are based on, and correspond to, the unit load sizes defined in ISO 3676¹⁾.

These pallet sizes are unlikely to cover all requirements because of substantial differences in size, shape and density of products, range of handling devices, regional practice, etc.

Pallets with sizes not specified in this International Standard, but lying within the dimensional deviations of the unit loads defined in ISO 3676 (i.e. -40^0 mm), should not be rejected on the basis of this International Standard (for example 1 100 mm × 1 100 mm pallets).

Annex A gives illustrations of different pallet types showing the vertical dimensions specified in this International Standard; it is included for additional guidance only.

1) ISO 3676 : 1983, *Packaging — Unit load sizes — Dimensions*.

This document is a preview generated by EVS

This page intentionally left blank

General-purpose flat pallets for through transit of goods — Principal dimensions and tolerances

1 Scope

This International Standard specifies overall dimensions for single-deck and double-deck non-reversible pallets for through transit of goods, and dimensions related to their handling by pallet trucks, fork lift trucks and other appropriate handling equipment.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 445 : 1984, *Pallets for materials handling — Vocabulary*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 445 apply.

4 Dimensions

4.1 Plan dimensions

4.1.1 Nominal overall dimensions

The nominal overall plan dimensions of pallets shall be as follows:

1 200 mm × 1 000 mm: Pallet size corresponding to the preferred modular unit load size of 1 200 mm × 1 000 mm

1 200 mm × 800 mm: Pallet size corresponding to the recognized unit load size of 1 200 mm × 800 mm

1 140 mm × 1 140 mm: Pallet size corresponding to the recognized square unit load size of 1 140 mm × 1 140 mm, which is derived from the internal width of ISO series 1 general-purpose freight containers¹⁾

1 219 mm × 1 016 mm: Acceptable pallet size for a period of transition while metrication goes into effect in those parts of the world where this size is used

4.1.2 Tolerances

The tolerances on the nominal overall plan dimensions given in 4.1.1 shall be $_{-0}^0$ mm.²⁾

4.2 Vertical dimensions for lifting devices

4.2.1 The entries for the forks of fork lift trucks and the fingers of pallet trucks shall be not less than 98 mm high, except for pallets with free entries, where they shall be not less than 95 mm high.

NOTE — Certain pallets manufactured in North America have an entry 89 mm high. Such pallets may be used for international through transit of goods.

4.2.2 If notches for the forks of fork lift trucks are provided, the distance from the top of the notch to the ground shall be not less than 55 mm. The distance from the top of the notch to the base of the stringer itself shall not exceed 45 mm.

4.2.3 The distance from the underside of the lowest element of the top deck to the ground shall not exceed 127 mm for partial four-way pallets and double-deck pallets with free entries.

For full perimeter base pallets, this distance shall not exceed 156 mm.

NOTE — With hygroscopic materials, the dimensions stated in 4.2.1, 4.2.2 and 4.2.3 relate to an average moisture content of (20 ± 2) %.

1) Future developments in freight container technology and construction may permit increases in these plan dimensions up to the limits of the modular dimensions of 1 200 mm.

2) In order to meet the specified tolerances, certain materials require a positive tolerance at the time of manufacture because of shrinkage. Such pallets may have a manufacturing tolerance of ± 3 mm.