

Flat pallets for materials handling - Principal dimensions

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13382:2002 sisaldab Euroopa standardi EN 13382:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.09.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13382:2002 consists of the English text of the European standard EN 13382:2001.</p> <p>This document is endorsed on 18.09.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the principal dimensions and tolerances for new single-deck and double-deck non-reversible flat pallets of all entry types related to their transportation and handling by pallet trucks, fork lift trucks and other appropriate equipment. NOTE Depending on end use and the meeting of tests specified in ISO 8611, such pallets are intended to be stacked: a) in store up to 4-high; b) in transit up to 2-high.</p>	<p>Scope:</p> <p>This European Standard specifies the principal dimensions and tolerances for new single-deck and double-deck non-reversible flat pallets of all entry types related to their transportation and handling by pallet trucks, fork lift trucks and other appropriate equipment. NOTE Depending on end use and the meeting of tests specified in ISO 8611, such pallets are intended to be stacked: a) in store up to 4-high; b) in transit up to 2-high.</p>
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ICS 55.180.20

Võtmesõnad: definitions, depth, designations, dimensions, entries, flat pallets, goods, handling, load-supporting devices, main dimensions, materials handling equipment, measurement, pallets, shallow, shape, tolerances, tolerances (measurement), transportation chains

ICS 55.180.20

English version

Flat pallets for materials handling - Principal dimensions

Palettes plates pour la manutention et le transport de
marchandises - Dimensions principales

Flachpaletten für die Handhabung von Gütern - Hauptmaße

This European Standard was approved by CEN on 15 November 2001.

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COMITÉ EUROPÉEN DE NORMALISATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 13382:2002) has been prepared by Technical Committee CEN /TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2002, and conflicting national standards shall be withdrawn at the latest by October 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Annex A is normative.

Introduction

ISO 6780 was primarily written for pallets for through transit only. This European Standard is based upon, but not identical to ISO 6780:1988, "General purpose flat pallets for through transit of goods — Principal dimensions and tolerances", with special changes to suit European handling systems. It is anticipated that these changes will be proposed to ISO/TC 51 for possible adoption in due course. In particular, the entry height changes made to ISO 509, "Pallet trucks — Principal dimensions", assume changes to ISO 6780, including a minimum height of entry of 95 mm.

An increasing number of standardized pallets are used in automatic storage retrieval machines or on automatic production lines, roller conveyers and wrapping devices. The minimum height of access for lifting devices as given in this European Standard may not be sufficient in all circumstances. The dimensional requirements should take into account the requirements for fork lift and hand, pallet trucks, automatic storage retrieval machines and special telescopic fork system requirements. For these systems, the most commonly used pallets are those with 100 mm entry height.

Widening of the scope of this European Standard has necessitated a removal of the normative requirement for stacking up to 4-high allowing for the widespread use of racking systems which permit single or 2-high stacking. The specifier can choose the appropriate level of stacking ability of 2- or 4-high.

With regard to tolerances, this document allows for manufacture from all materials and the need for both a manufacturing and a material movement tolerance.

1 Scope

This European Standard specifies the principal dimensions and tolerances for new single-deck and double-deck non-reversible flat pallets of all entry types related to their transportation and handling by pallet trucks, fork lift trucks and other appropriate equipment.

NOTE Depending on end use and the meeting of tests specified in ISO 8611, such pallets are intended to be stacked:

- a) in store up to 4-high;
- b) in transit up to 2-high.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN ISO 445:1998, *Pallets for materials handling – Vocabulary (ISO 445:1996)*

ISO 3394, *Dimensions of rigid rectangular packages — Transport packages*

ISO 8611, *General-purpose flat pallets for through transit of goods — Test methods*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions in EN ISO 445:1998 and the following apply.

3.1

through transit

pallet usage cycle which anticipates that the full range of mechanical handling equipment may be applied at some stage of the journey

4 Dimensions

4.1 Plan dimensions

4.1.1 Nominal overall dimensions

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

- a) commonly used modular sizes based upon plan module (M) specified in ISO 3394 of 600 mm \times 400 mm:

800 mm \times 1 200 mm ($4M$);

1200 mm \times 1 000 mm ($5M$);

1000 mm \times 1 200 mm ($5M$);

- b) other modular sizes:

800 mm \times 600 mm ($2M$)

1200 mm \times 1 200 mm ($6M$)

- c) non-modular sizes:

see annex A.

4.1.2 Stringer or the stringerboard dimensions

The stringer or the stringerboard dimension is the pallet length and the length (L) is always quoted first in designating plan size. For pallets without stringers the longest dimension is the length.

4.1.3 Moisture content and temperature

With sawn timber the dimensions stated relate to measurement at an average moisture content of $(20 \pm 2) \%$. For plastics, dimensions are measured at a temperature of $(23 \pm 2) ^\circ\text{C}$.