



SLOVENSKI STANDARD
SIST EN ISO 8611-1:2004
01-september-2004

Palete za ravnanje z materiali - Ravne palete – 1. del: Preskusne metode (ISO 8611-1:2004)

Pallets for materials handling - Flat pallets - Part 1: Test methods (ISO 8611-1:2004)

Paletten für den Gütertransport - Flachpaletten - Teil 1: Prüfverfahren (ISO 8611-1:2004)

Palettes pour la manutention - Palettes plates - Partie 1: Méthodes d'essai (ISO 8611-1:2004)

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Ta slovenski standard je istoveten z: EN ISO 8611-1:2004

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ICS:

55.180.20 X^ } æ ^} • \ ^ Á æ ^ c General purpose pallets

SIST EN ISO 8611-1:2004 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8611-1

February 2004

ICS 55.180.20

English version

Pallets for materials handling - Flat pallets - Part 1: Test methods (ISO 8611-1:2004)

Palettes pour la manutention - Palettes plates - Partie 1:
Méthodes d'essai (ISO 8611-1:2004)

Paletten für den Gütertransport - Flachpaletten - Teil 1:
Prüfverfahren (ISO 8611-1:2004)

This European Standard was approved by CEN on 9 February 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 8611-1:2004 (E)**Foreword**

This document (EN ISO 8611-1:2004) a été élaboré par le Comité Technique ISO/TC 51 "Plateaux de chargement pour transport et manutention directe de charges unitaires" en collaboration avec le Comité Technique CEN/TC 261 "Emballage" dont le secrétariat est tenu par l'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 August 2004, and conflicting national standards shall be withdrawn at the latest by August 2004.

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

Endorsement notice

The text of ISO 8611-1:2004 has been approved by CEN as EN ISO 8611-1:2004 without any modifications.

NOTE Normative references to International Standards are listed in Annex ZA (normative).

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Annex ZA (normative)

Normative references to international publications with their relevant European publications

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).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 445	1996	Pallets for materials handling - Vocabulary	EN ISO 445	1998
ISO 12777-1	1994	Methods of test for pallet joints - Part 1: Determination of bending resistance of pallet nails, other dowel-type fasteners and staples	EN ISO 12777-1	1996

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INTERNATIONAL STANDARD

ISO
8611-1

First edition
2004-02-15

Pallets for materials handling — Flat pallets —

Part 1: Test methods

Palettes pour la manutention — Palettes plates —

Partie 1: Méthodes d'essai

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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ISO 8611-1:2004(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8611-1 was prepared by Technical Committee ISO/TC 51, *Pallets for unit load method of materials handling*.

This first edition, together with ISO 8611-2 and ISO 8611-3, cancels and replaces ISO 8611:1991.

ISO 8611 consists of the following parts, under the general title *Pallets for materials handling — Flat pallets*:

- *Part 1: Test methods* [SIST EN ISO 8611-1:2004
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- *Part 2: Performance requirements and selection of tests* (Technical Specification)
- *Part 3: Maximum working load* (Technical Specification)

Introduction

The 1991 edition of ISO 8611 described a system of sequential testing that relied upon a pallet passing every test in a series. This meant that one pallet could be near to failure in one particular test where another pallet might be substantially over-designed. Using the (earlier) deflection criteria, both pallets were presented as equals in terms of safety factor. The notched stringer pallet was a good example of this where it was typically very stiff, but frequently near fracture point in the (old) bending test. The new, three-part version of ISO 8611 redresses this in failing every specimen in order to establish a definite safety factor. Stiffness is dealt with as a separate series of measurements conducted during testing.

Conducting the tests requires experience in testing (including the load) and also some expertise of the materials under test. This part of ISO 8611, in conjunction with ISO/TS 8611-2 and ISO/TS 8611-3, has been expressly designed to cover all pallet materials either when used alone or used as composites. A further change over ISO 8611:1991 is that all pallets for materials handling are now covered and not just high quality through-transit, exchange or pool pallets.

This part of ISO 8611 cannot be used to evaluate a pallet to normative ISO requirements without the additional application of ISO/TS 8611-2 and ISO/TS 8611-3.

This part of ISO 8611 was designed to be coupled with ISO/TR 10232:1989 *General-purpose flat pallets for through transit of goods — Design rating and maximum working load* and ISO/TR 10233:1989 *General-purpose flat pallets for through transit of goods — Performance requirements*.

The changing of the title and the scope of ISO 6780 from *General purpose flat pallets for through transit of goods — Principal dimensions and tolerances*, to a wider scope of *Flat pallets for intercontinental materials handling — Principal dimensions and tolerances*, makes it necessary to amend ISO 8611:1991 and the Technical Reports ISO/TR 10232 and ISO/TR 10233. The test methods, performance requirements and design rating and maximum working load should now include not only “general purpose pallets” but also all other pallets for materials handling.

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