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**Methods of test for pallet joints - Part 3:
Determination of strength of pallet joints**

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Determination of strength of pallet joints

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12777-3:2003 sisaldab Euroopa standardi EN ISO 12777-3:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.03.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12777-3:2003 consists of the English text of the European standard EN ISO 12777-3:2002.</p> <p>This document is endorsed on 19.03.2003 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: This part of ISO 12777 specifies methods of determining the resistance of pallet joints primary to static load by determining the strength and stiffness of nailed or stapled joints, wood to wood, wood to wood-based materials, wood to plastics or plastics to plastics</p>	<p>Scope: This part of ISO 12777 specifies methods of determining the resistance of pallet joints primary to static load by determining the strength and stiffness of nailed or stapled joints, wood to wood, wood to wood-based materials, wood to plastics or plastics to plastics</p>
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Võtmesõnad: determination, fasteners, joining elements, joints, packages, packaging, packing, pallets, strength of materials, testing

ICS 55.180.20

English version

Methods of test for pallet joints

Part 3: Determination of strength of pallet joints
(ISO 12777-3 : 2002)

Méthodes d'essai des assemblages de palettes – Partie 3: Détermination de la résistance des assemblages de palettes (ISO 12777-3 : 2002)

Prüfungen von Verbindungen an Paletten – Teil 3: Bestimmung der Festigkeit der Palettenverbindungen (ISO 12777-3 : 2002)

This European Standard was approved by CEN on 2002-11-15.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

Foreword

International Standard

ISO 12777-3 : 2002 Methods of test for pallet joints – Part 3: Determination of strength of pallet joints, which was prepared by ISO/TC 51 'Pallets for unit load method of materials handling' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 261 'Packaging', the Secretariat of which is held by AFNOR, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 12777-3 : 2002 was approved by CEN as a European Standard without any modification.

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Introduction

This part of ISO 12777 was developed using methods that enable the user to select from a range of tests that best fits the particular problem or area of the pallet under analysis. Some are suitable for routine quality control and some are designed for laboratory use. Where characteristics of wood used in pallet joints are required then ISO 3133 and related standards as given in clause 2 may be used.

In general the tests if used as routine quality control tests only require the measurement of ultimate load, while if the tests are undertaken as prototype tests in a laboratory, then they also require measurement of deflection or distortion in the joint plotted during the application of the load.

1 Scope

This part of ISO 12777 specifies methods of determining the resistance of pallet joints primarily to static load by determining the strength and stiffness of nailed or stapled joints, wood to wood, wood to wood-based materials, wood to plastics or plastics to plastics.

This part of ISO 12777 is applicable to joints with all types of nails up to 7 mm in diameter (including plain shank, helical, annular ring, barbed and twisted) and with staples.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 12777. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 12777 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 445:1996, *Pallets for materials handling — Vocabulary*

ISO 1133:1997, *Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics*

ISO 1183:1987, *Plastics — Methods for determining the density and relative density of non-cellular plastics*

ISO 3130:1975, *Wood — Determination of moisture content for physical and mechanical tests*

ISO 3131:1975, *Wood — Determination of density for physical and mechanical tests*

ISO 3133:1975, *Wood — Determination of ultimate strength in static bending*

ISO 8611-1:—¹⁾, *Pallets for materials handling — Flat pallets — Part 1: Test methods*

ISO/TR 11444:1995, *Quality of sawn wood used for the construction of pallets*

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*

ISO 12777-2:2000, *Methods of test for pallet joints — Part 2: Determination of withdrawal and head pull-through resistance of pallet nails and staples*

1) To be published.