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Pallets for materials handling — Repair of flat wooden pallets

Palettes pour la manutention et le transport des marchandises — Réparation des palettes plates en bois

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 51, *Pallets for unit load method of materials handling*.

This second edition cancels and replaces the first edition (ISO 18613:2003), which has been technically revised.

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Introduction

Mandatory requirements for recycling of packaging materials has led to an expansion of reuse, repair and recycling of wooden pallets. This International Standard is intended to assist this process, in that, through its implementation, the safety and longevity of repaired pallets will be maximised. This International Standard also refers particularly to new pallet standards and prescriptive pallet specifications in wide use.

There is no requirement in this International Standard for pallet repairers to undertake tests, since, if guidance given in this International Standard is followed and systematic repair and inspection systems are used, then a successful repair is assumed to follow.

There are four related International Standards:

— ISO 15629, *Pallets for materials handling — Quality of fasteners for assembly of new and repair of used, flat wooden pallets*

— ISO 18333, *Pallets for materials handling — Quality of new wooden components for flat pallets*

— ISO 18334, *Pallets for materials handling — Quality of assembly of new wooden pallets*

— ISO 18613, *Pallets for materials handling — Repair of flat wooden pallets*

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Pallets for materials handling — Repair of flat wooden pallets

1 Scope

This International Standard specifies the maximum defects and damage allowed before a flat wooden pallet shall be repaired, and defines the minimum repair criteria that shall be used.

This International Standard is applicable to wooden flat pallets repaired with wood based components.

NOTE The maximum allowed defects and damage for pallets are described in this International Standard and the Annexes A to D show examples of defects and damage which make the widely used pallets unacceptable for use. For other pallet types similar criteria should be set up. The repair criteria for pool and rental pallets are controlled by their respective controlling operators/owners, and may be subject to a licence.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 445, *Pallets for materials handling — Vocabulary*

ISO 15629, *Pallets for materials handling — Quality of fasteners for assembly of new and repair of used, flat, wooden pallets*

EN 1087-1:1994, *Particleboards — Determination of moisture resistance— Boil test*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 445 (some of which are repeated below for convenience) and the following apply.

3.1
board
top deck board, bottom deck board, or stringer board

3.2
deckboard
individual member of a top or bottom deck

3.3
bottom deck board
individual member of bottom deck

3.4
stringerboard
horizontal member linking the blocks and deckboards

3.5
stringer or bearer
continuous longitudinal member underneath the top deck or between the top and bottom decks, which provides space for the entry of fork-lift forks and pallet-truck fingers

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