

Implementation of
ISO TR 12776:1995

Pallets — Slip sheets

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National foreword

This British Standard reproduces verbatim ISO TR 12776:1995 and implements it as the UK national standard.

This British Standard is published under the direction of the Consumer Products and Services Sector Board whose Technical Committee PKW/3 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO TR title page, pages ii to iv, pages 1 to 21 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

TECHNICAL REPORT

ISO
TR 12776

First edition
1995-10-01

Pallets — Slip sheets

Palettes — Feuilles intercalaires (dites "slip sheets")



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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 main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard (“state of the art”, for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/TR 12776, which is a Technical Report of type 2, was prepared by Technical Committee ISO/TC 51, *Pallets for unit load method of materials handling*.

This document is being issued in the type 2 Technical Report series of publications (according to subclause **G.4.2.2** of part 1 of the ISO/IEC Directives, 1992) as a “prospective standard for provisional application” in the field of slip sheets because there is an urgent need for guidance on how standards in this field should be used to meet an identified need.

This document is not to be regarded as an “International Standard”. It is proposed for provisional application so that information and experience of its use in practice may be gathered. Comments on the content of this document should be sent to the ISO Central Secretariat.

A review of this type 2 Technical Report will be carried out not later than two years after its publication with the options of: extension for another two years; conversion into an International Standard; or withdrawal.

Annex A, Annex B, Annex C, Annex D and Annex E of this Technical Report are for information only.

Introduction

The system of slip-sheet unit-load handling involves the use of a thin sheet of material, the slip sheet, as a base on which items are assembled as a unit load for handling, transport and storage. Slip sheets provide an alternative to the use of pallets for assembling, handling, transporting and sorting goods in unit-load form.

To use slip sheets, a conventional lift truck is equipped with a special attachment for gripping, pulling and pushing the slip-sheeted unit loads. The attachment may be permanent or removable depending on the application and circumstances. If all lift trucks in the distribution cycle are equipped with the proper attachment, a slip sheet is the only material-handling base required. Unit loads on slip sheets may be lifted, stacked and then retrieved and handled as a single unit. The stacking height may be as high as five unit loads, depending on the strength of the packaging. However, the slip sheet may also be used in conjunction with a pallet, if desired, at certain stages in the distribution cycle.

Originally developed in the USA, the slip sheet provides an inexpensive and lightweight unit-load base that occupies little shipping cube and is more easily disposed of than conventional pallets. If both the shipper and receiver have the appropriate equipment and other basic requirements are met, the full benefits of unitized load handling can be met using slip sheets.

1 Scope

This Technical Report defines terms related to slip sheets used as bases for the assembly, handling, storing and transporting of products and goods as unit loads, and gives details of typical materials and designs used. It also specifies requirements with relation to dimensions and performance.

The following annexes are included:

- guidelines on uses of slip sheets;
- guidelines on setting-up a slip sheet system;
- correct operating procedures for handling unit loads on slip sheets;
- push-pull equipment;
- bibliography.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this Technical Report. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this Technical Report 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 1924-2:1994, *Paper and board — Determination of tensile properties — Part 2: Constant rate of elongation method*.

3 Definitions

For the purposes of this Technical Report, the following definitions apply.

Terms relating to push-pull equipment are given in Annex D.

3.1 slip sheet

flat sheet of material with a tab on one or more sides, used as a base for assembling, handling, storing and transporting goods and products in unit-load form

NOTE 1 Slip sheets may be used in conjunction with pallets or may be handled separately.

3.2 expendable slip sheet

slip sheet intended to be discarded after a single cycle of use

3.3 reusable slip sheet

slip sheet intended for multiple cycles of use

3.4 recyclable slip sheet

slip sheet manufactured from material which can be reprocessed

3.5 slip-sheet load surface

that portion of the sheet under the unit load of goods or products

3.6 score line

impression or crease in the slip-sheet material that is provided to locate and facilitate folding to create a tab