

Cage pallets for retail use —

Part 1: Specification for collapsible cage pallets rated at 300 kg

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- Agricultural Research Council
- British Industrial Truck Association
- British Plastics Federation
- British Ports Association and the National Association of Ports Employers
- British Railways Board
- British Rubber Manufacturers' Association
- British Timber Merchants' Association
- British Wood Preserving Association
- Chemical Industries Association
- Electronic Components Industry Federation
- Engineering Equipment and Materials Users' Association
- Food Manufacturers' Federation Incorporated
- Glass Manufacturers' Federation
- Health and Safety Executive
- Institute of Materials Handling
- Institute of Packaging
- Institution of Production Engineers
- Ministry of Defence
- National Federation of Wholesale Grocers' and Provision Merchants' Associations
- National Materials Handling Centre
- PIRA (the Research Association for the Paper and Board, Printing and Packaging Industries)
- Road Haulage Association Ltd.
- Soap and Detergent Industry Association
- Storage Equipment Manufacturers' Association
- Timber Packaging and Pallet Confederation
- Timber Research and Development Association
- United Kingdom Agricultural Supply Trade Association Ltd.
- Coopted members

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Multiple Retailers' Association
- Institution of Grocery Distribution

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Foreword

This Part of this British Standard has been prepared under the direction of the Packaging and Freight Containers Standards Committee at the request of the Institute of Grocery Distribution and manufacturers of cage pallets used in the retail trades. Such cage pallets were developed to meet requirements for goods to be loaded for distribution to retail outlets where the goods could be put on sale without further unpacking or handling.

This standard has been prepared both to ensure that the design and performance of a cage pallet are appropriate to its rating and conditions of use and to establish a set of dimensions related to interstacking which will enable all cage pallets that meet the requirements of this standard to satisfactorily interstack one with another, whatever their source of manufacture. The plan size specified is based on the half Euro-pallet and is currently used throughout the retail trade.

Guidance on the safe handling and use of cage pallets will form Part 2 of this standard.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 14, an inside back cover 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.

1 Scope

This Part of BS 6407 specifies dimensional, constructional and design requirements, including the capability to be interstacked, together with type test performance requirements, for collapsible cage pallets intended for use for the transit of up to 300 kg of goods and the storage and merchandizing of these goods at retail outlets.

Materials and surface finishes are not specified. It may be necessary to ensure that the material and/or surface finish of the cage pallet is compatible with certain goods and this should be a matter for contractual agreement between the manufacturer and the purchaser.

NOTE The titles of the publications referred to in this Part of this standard are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 6407 the following definitions apply.

2.1

cage pallet

a special design of pallet having a superstructure of four attached, collapsible, vertical sides, usually slatted or mesh

NOTE 1 Designed to permit stacking by mechanical means, it is used both for the transit of goods and as a display and selection unit for merchandizing in retail outlets.

NOTE 2 Figure 1 shows a typical design of cage pallet incorporating the design features specified in this Part of this British Standard.

2.2

side-frame spigot

a protrusion above the top edge of the two sides when the cage pallet is in the erected condition, designed to locate in the appropriate foot aperture of another cage pallet during stacking

2.3

middle spigot

a protrusion above the base when the cage pallet is in the collapsed condition, designed to locate in the appropriate foot aperture of another collapsed cage pallet during stacking

2.4

foot aperture

the aperture in each foot of a cage pallet designed to accept, and locate on, the appropriate spigot of another cage pallet positioned beneath it

2.5

interstacking devices

a generic term covering side-frame spigots, middle spigots and feet apertures

2.6

interstacking

the ability to stack cage pallets with the interstacking devices correctly located

2.7

type

cage pallets of like design, manufactured using identical methods of construction from materials of equivalent specification

2.8

type test

a test, or series of tests, directed towards approval of a cage pallet type, conducted to determine whether the cage pallet meets the requirements of this standard

2.9

rating

the maximum safe working load for an individual cage pallet, i.e. 300 kg, assuming the load to be uniformly distributed over the base area of the cage pallet

3 Design and construction

3.1 Fork entry. The cage pallet shall permit the entry of forks of fork lift trucks from front, back and sides. To ensure this, the height of the feet and the distances between them shall conform to the dimensions shown in Figure 2(a) and Figure 2(b). The construction of the cage pallet base shall be such that there is no obstruction to that access.

The surfaces of the cage pallet which bear on the forks shall be level and so constructed that the load may be safely carried on forks inserted to a distance of only 75 % of the width or length of the cage pallet.

3.2 Interstacking

3.2.1 General. The cage pallet shall be so designed that it may be interstacked in either the erected or the collapsed condition, by the use of interstacking devices, i.e. side-frame spigots, middle spigots and feet apertures.

3.2.2 Side-frame spigots. The cage pallet shall have four side-frame spigots so positioned that they locate in 16 mm diameter apertures with centres spaced at the points X as shown in the plan view of the erected pallet [see Figure 2(c)].

3.2.3 Middle spigots. The cage pallet shall have four middle spigots so positioned that they locate in 16 mm diameter apertures with centres spaced at the points X as shown in the plan view of the collapsed pallet [see Figure 3(c)].

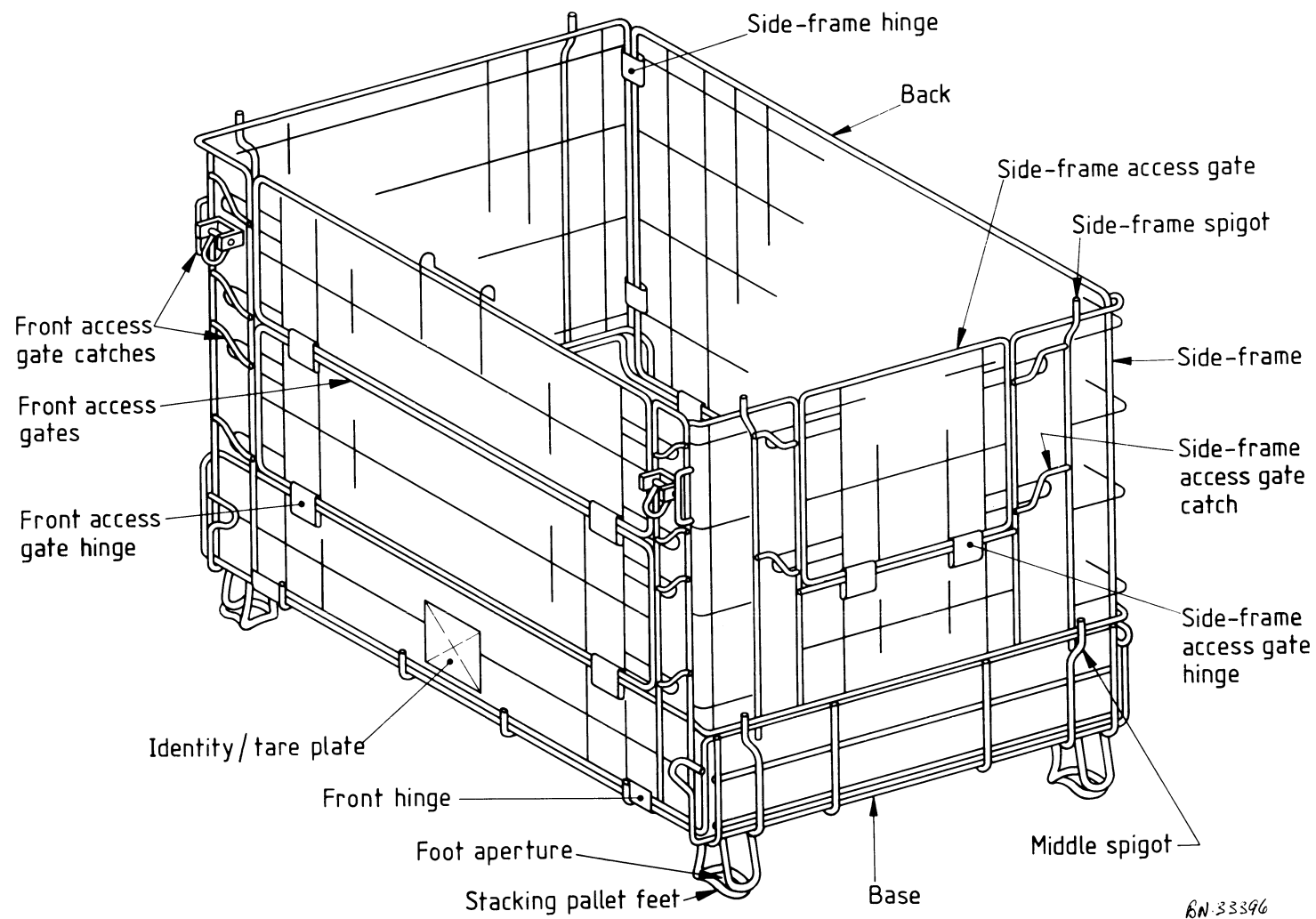


Figure 1 — Typical cage pallet incorporating specified design features and optional side-frame access gate