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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 198

DOUBLE-DECK FLAT PALLETS FORTHROUGH TRANSIT OF GOODS (standards.iteh.ai)

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BRIEF HISTORY

The ISO Recommendation R 198, Double-Deck Flat Pallets for through Transit of Goods, was drawn up by Technical Committee ISO/TC 51, Pallets for Unit Load Method of Materials Handling, the Secretariat of which is held by the British Standards Institution (B.S.I.).

Work on this question by the Technical Committee began in 1952 and led, in 1954, to the adoption of a first Draft ISO Recommendation, dealing with two pallet sizes. This first Draft ISO Recommendation (No. 42) was circulated, in May 1954, to all the ISO Member Bodies for enquiry.

However, during its third meeting, held in Stockholm in June 1955, the Technical Committee decided to complete the Draft so as to include a third pallet size, as well as the specifications concerning the construction details of the pallets in question. In November 1959, the Draft thus completed was circulated to all the ISO Member Bodies as a Second Draft ISO Recommendation (No. 42) and was approved, subject to some editorial amendments, by the following Member Bodies:

Austria _{httns://standards.itel}	ISO/R 198:1961 Ireland Laycatalog/standards/sist/6ab(Romania 4f09-b66d-
Belgium	Istaly a7fd054f/iso-r-198-19	Spain 105 bood
Chile	Netherlands	Sweden
Czechoslovakia	New Zealand	Switzerland
Denmark	Norway	United Kingdom
France	Poland	U.S.S.R.
Greece	Portugal	

One Member Body opposed the approval of the Draft: Germany.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in May 1961, to accept it as an ISO RECOMMENDATION.

DOUBLE-DECK FLAT PALLETS FOR THROUGH TRANSIT OF GOODS

Throughout this ISO Recommendation, dimensions are given both in inches and in millimetres. The dimensions in millimetres and in inches are considered to be "corresponding values", although some of these are not exactly equivalent.

1. The nominal sizes of flat pallets for general purposes are as follows:

Table I.—Nominal sizes

Millimetres		
800×1200		
1000×1200		
800×1000		

2. The actual overall sizes of the decks of these pallets, which are equal to the nominal sizes given under clause 1, and their tolerances are indicated in Table II below:

TABLE II.—Actual overall sizes

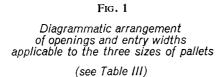
	dimensions e pallets	Actu	al length L	Actual width B		
in	II mm S	ANinDA	mm	in/	mm	
32 × 48	800 × 1200	ta48 d 3/4	s.i200lt.20i)	$32 - \frac{0}{1/2}$	$800 + {15 \atop 0}$	
40 × 48	1000 × 1200 ttps://standards.ite	1SO/R 19 h.ai/catal o g ³ /andar	8:1961 + 20 ds/sist/6ab0f9c-a3	0 a6-4109- b 65¢	$1000 + \frac{16}{0}$	
32 × 40	800 × 1000	$\begin{array}{c c} 31002/100341/180 \\ 40 & 0 \\ - & \frac{5}{1/8} \end{array}$	$1000 + \frac{16}{0}$	$32 - \frac{0}{1/2}$	$800 + \frac{15}{0}$	

These tolerances should be regarded as extreme limits within which the manufacturing tolerances of the national standards should be specified.

- 3. The pallets specified are all double-decked and are constructed so as to permit the entry of forks or fingers of fork lift trucks or pallet trucks, preferably from any side, but at least from two opposite sides.
- 4. The distance from the underside of the top deck to the ground is 5 in (127 mm) maximum, and the free height for the entry of forks or fingers, from any side, is $3^{7}/_{8}$ in (99 mm) minimum.
- 5. The bearing surface of the bottom deck should be equal to or greater than 40 per cent of the overall surface of the top deck.
- 6. The arrangement and the minimum entry dimensions which are provided to allow the entry of the forks of fork lift trucks and pallet trucks, and also the arrangement and minimum dimensions of the openings, should conform with Figure 1 and Table III. However, for the pallets of

32 in
$$\times$$
 48 in 800 mm \times 1200 mm 40 in \times 48 in 1000 mm \times 1200 mm

and if the construction will permit, it is recommended that the minimum openings should be those given in Figure 2 and Table IV.



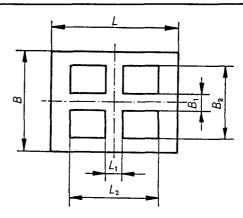


TABLE III.-Minimum dimensions of the openings according to Fig. 1

	l dimensions ne pallets	Dimensions of the openings L_1 max L_2 min B_1 max B_2				min			
in	mm	in	mm	in	mm	in	mm	in	mm
32 × 48	800 × 1200	6	150	30	760	6	150	23 1/4	590
40 × 48	1000 × 1200	6	150	30	760	6	150	28	710
32 × 40	800 × 1000	6	150	28	710	6	150	23 1/4	590

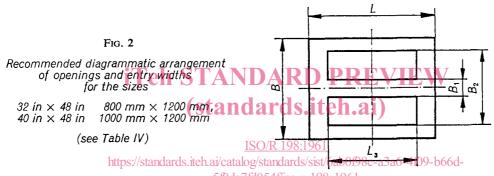


TABLE IV.—Minimum dimensions of the openings according to Fig. 2

	l dimensions ne pallets	L_3	min	Dimensions of B_1	the openings max	B_2	min
in	mm	in	m m	in	mm	in	mm
32 × 48	800 × 1200	32	800	6	150	23 1/4	590
40 × 48	1000 × 1200	32	800	6	150	28	710

- 7. The width of wing for lifting wing pallets of the dimensions given in clause 1 should be $2^{1}/_{2}$ in (65 mm) minimum.
- 8. Non-expendable pallets should be capable throughout their working life of supporting a uniformly distributed load of 1 ton (U.K.) (1000 kg) whilst being handled, and a uniformly distributed load of 4 tons (U.K.) (4000 kg) when stacked.
- 9. The edges of the top surface of members of the bottom deck of non-reversible pallets should be chamfered on each side of the top face in the following way:
 - (a) the angle between the chamfered surface and the horizontal should be $40^{\circ} \pm 5^{\circ}$;
 - (b) the height of the vertical face of the member should be

if of wood:
$$\frac{1}{2} \pm \frac{1}{8}$$
 in (10 $\frac{+5}{0}$ mm);

if of metal: not more than 3/8 in (10 mm).

This requirement applies to a pallet of any material when the thickness of the member concerned exceeds $\frac{3}{8}$ in (10 mm).