International Standard



668

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXAYHAPODHAR OPFAHUSAUUR TO CTAHDAPTUSAUUMOORGANISATION INTERNATIONALE DE NORMALISATION

Series 1 freight containers — Classification, external dimensions and ratings

Conteneurs de la série 1 - Classification, dimensions extérieures et masses brutes maximales

Third edition - 1979-04-15

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 668:1979</u> https://standards.iteh.ai/catalog/standards/sist/b25cdf27-4970-4d07-91c2edf31cfe2288/iso-668-1979

Ref. No. ISO 668-1979 (E)

Descriptors : cargo transportation, freight containers, specifications, dimensions, weight (mass), ratings, classifications, designation.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 668 was developed by Technical Committee VIEW ISO/TC 104, *Freight containers*, and was circulated to the member bodies in May 1978. (standards.iteh.ai)

It has been approved by the member bodies of the following countries : ISO 668:1979

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Australia	https://standards.itel	nai/catalos/standaxia/sist/basepdf27-4970-4d07-91c2-
Austria	Iran	edf31span88/iso-668-1979
Belgium	Ireland	Sweden
Bulgaria	Israel	Switzerland
Canada	Italy	Turkey
Chile	Mexico	United Kingdom
Czechoslovakia	Netherlands	USA
Denmark	New Zealand	USSR
France	Norway	Yugoslavia
Germany, F.R.	Poland	
Hungary	Romania	

No member body expressed disapproval of the document.

This third edition cancels and replaces the second edition (i.e. ISO 668-1976).

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Series 1 freight containers — Classification, external dimensions and ratings

1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes a classification of series 1 freight containers based on external dimensions, and specifies the associated ratings.

These containers are intended for intercontinental traffic.

3 CLASSIFICATION AND DESIGNATION

Series 1 freight containers have a uniform width of 2 438 mm (8 ft).

TABLE 1 - Nominal lengths

The nominal lengths are listed in table 1.

NOTE Series 3 containers are intended essentially for internal continental systems. For their dimensions as well as strength and testing requirements, a document is in preparation.	Freight container	Nomin	al length	
testing requirements, a document is in preparation.	designation	m	ft	
	144	12*	40*	
2 DEFINITIONS iTeh STANDARD PH				
For the purposes of this International Standard, the following definitions apply :	ai) _{1BB}	9	30	
2.1 freight container : An article of transport equipment ISO 668:1979	1B 1BX			
a) of a permanent characterstand, accordingly astrong dards/sist/b25cd enough to be suitable for repeated use; edf31cfe2288/iso-668-1979	27-4970-4d07-91	6	20	
 b) specially designed to facilitate the carriage of goods by one or more modes of transport, without intermediate 	1C 1CX			
reloading; c) fitted with devices permitting its ready handling, particularly its transfer from one mode of transport	1D 1DX	3	10	

to another;

d) so designed as to be easy to fill and empty;

e) having an internal volume of 1 m³ (35.3 ft³) or more.

The term "freight container" includes neither vehicles nor conventional packing.

2.2 ISO container : A freight container complying with all relevant ISO container standards in existence at the time of its manufacture.

2.3 rating : The maximum gross mass¹⁾. It is the maximum permissible combined mass of the freight container and its contents.

* In certain countries there are legal limitations to the overall length of vehicle and load.

Containers 2 591 mm (8 ft 6 in) in height are designated 1AA, 1BB, and 1CC.

Containers 2 438 mm (8 ft) in height are designated 1A, 1B, 1C and 1D.

Containers less than 2 438 mm (8 ft) in height are designated 1AX, 1BX, 1CX and 1DX.

NOTE - X has no specific connotation other than to indicate that the height of the container is between 0 and 2 438 mm (8 ft).

The reduced height containers are permissible for tank, open top, bulk, platform and platform based type containers.

¹⁾ In some countries, to conform to current commercial practice, the term "weight" is used (incorrectly) instead of "mass".

4 EXTERNAL DIMENSIONS, TOLERANCES AND RATINGS

4.1 The external dimensions, tolerances and ratings are given in table 2.

4.2 The dimensions and tolerances apply when measured

at the temperature of 20 $^\circ C$ (68 $^\circ F); measurements taken at other temperatures shall be adjusted accordingly.$

4.3 Corner fittings locations (centre-to-centre distances and diagonal tolerances) are given in the annex.

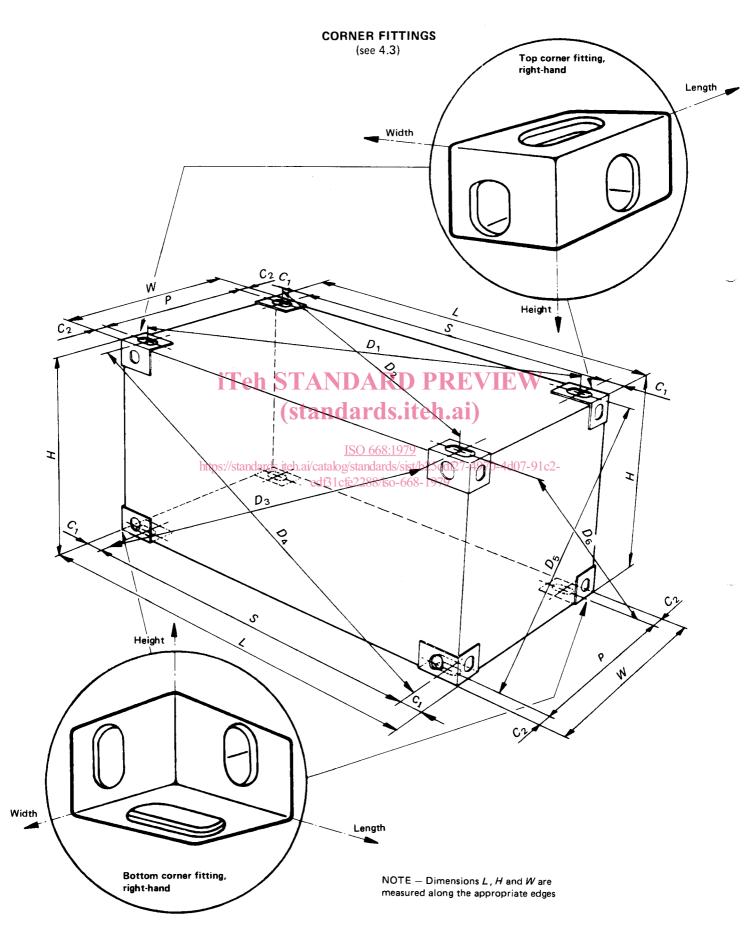
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ISO 668:1979 https://standards.iteh.ai/catalog/standards/sist/b25cdf27-4970-4d07-91c2edf31cfe2288/iso-668-1979 TABLE 2-External dimensions, permissible tolerances and ratings of series 1 freight containers

		-	()) three ()	-			Width	Width (M)			Height (H)	5			Rating	6
Freight		נ						1.4.4			IRIBIT				(maximum gross mass)	ross mass)
container designation	Ē	Tolerances mm	#	. <u>c</u>	Tolerances in	E E	Tolerances mm	https:	Tolerances in	Ê	Tolerances mm	ţ	Ľ	Tolerances in	b¥ X	qI
1AA	12 192	0 0!	40		0 - 3/8	2 438	- 5	/standa	0 - 3/16	2 591*	ء 1	8	.9	0 3/16	30 480	67 200
1A	12 192	- 10	40		0 - 3/8	2 438	- 50 -	urd <u>s</u> , ite	- 3/16	2 438	- 5	8		0 3/16	30 480	67 200
1AX	12 192	0 1	40		0 - 3/8	2 438	1 0	h.aj/ca ed		< 2 438		8 V			30 480	67 200
188	9 125	- 10	29	11 1/4	0 - 3/8	2 438	5 O 	<u>IS(</u> talog/st f31cfe2		2 591*	- 0 -	œ	*9	0 - 3/16	25 400	56 000
18	9 125	- 10	29	11 1/4	0 - 3/8	2 438	- 5 -	<u>0 668</u> andar 288/is		2 438	0 -	8		0 3/16	25 400	56 000
1BX	9 125	-10	53	11 1/4	0 - 3/8	2 438	- 5 O	<u>.1979</u> ds/ <u>s</u> ist/ so-668	S.	2 438		8 V			25 400	56 000
100	6 058	0 -	19	10 1/2	0 - 1/4	2 438	- 5	b25cdf2 -1979	eb ⁹	2 591*	- 2	00	*9	0 - 3/16	20 320	44 800
10	6 058	0 9	19	10 1/2	0 - 1/4	2 438	0 10 1	27-49°	U,	2 438	- 5	8		0 3/16	20 320	44 800
lcX	6 058	0 9	19	10 1/2	0 1/4	2 438	9 1 1	70-4d0	0 - 3/16	2 438		8 V			20 320	44 800
5	2 991	2 O 	ი	9 3/4	0 - 3/16	2 438	9 1)7-9 1 c2	0 - 3/16	2 438	- 0 -	∞		0 - 3/16	10 160	22 400
1DX	2 991	- 20	6	9 3/4	0 - 3/16	2 438	20	- ∞	0 - 3/16	< 2 438		8 V			10 160	22 400
* In certain	countries t	In certain countries there are legal limitations to the overall height of vehicle and load	l limite	tions to	the overall he	ight of veh	ticle and load.									

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ANNEX



- S_{-} = Length between centres of apertures in corner fittings
- P = Width between centres of apertures in corner fittings
- $C_1 = \text{Corner fitting measurement 101,5} = \begin{array}{c} 0 \\ -1.5 \end{array} \text{ mm} \left(4 \\ -1.16 \end{array} \text{ in}\right)$
- $C_2 = \text{Corner fitting measurement 89} \frac{0}{1.5} \text{ mm} (3 \ 1/2 \frac{0}{1/16} \text{ in})$
- L = External length of the container
- W = External width of the container
- D = D istance between centres of apertures, or projected reference points therefrom, of diagonally opposite corner fittings, resulting in six measurements : D_1 , D_2 , D_3 , D_4 , D_5 and D_6
- $K_1 = \text{Difference between } D_1 \text{ and } D_2 \text{ or between } D_3 \text{ and } D_4; \text{ i.e. } K_1 = |D_1 D_2| \text{ or } K_1 = |D_3 D_4|$
- $K_2 = \text{Difference between } D_5 \text{ and } D_6; \text{ i.e. } K_2 = \left| D_5 D_6 \right|$

H = Overall height

TABLE 3 - Dimens	sions and tolerances r	eleting to corper	fitting locations
IADLE 3 - Dimens	sions and toterances in	elating to comer	inting locations

Freight container		S			P		<i>К</i> ₁ г	max.	K ₂ ,	max.
designation	itte	h ^{ft} S	TAN	DAR	D +]	PREV	m ff	N in	mm	in
1AA 1A 1AX	11 985	39	stand 3 7/8	ards 2 259 50 668:1	7	4 31/32	19	3/4	10	3/8
1BB ^h 18 18X	ttps://stand 8918	lards.it 29	eh.ai/catalog 3 edf31cf			25cdf27-497(1979 4 31/32)-4d07 16	7-91c2 5/8	10	3/8
1CC 1C 1CX	5 853	19	2 7/16	2 259	7	4 31/32	13	1/2	10	3/8
1D 1DX	2787	9	1 23/32	2 259	7	4 31/32	10	3/8	10	3/8

NOTE – Attention of manufacturers is drawn to the vital importance of accurately maintaining the reference dimensions of S and P.

The tolerances to be applied to S and P are governed by the tolerances shown for the overall length and width in this International Standard and in ISO 1161.

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