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**Series 1 freight containers — Handling  
and securing**

**AMENDMENT 4: 45 ft containers**

*Conteneurs de la série 1 — Manutention et fixation*

*AMENDEMENT 4: Conteneurs de 45 ft*

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ISO 3874:1997/Amd 4:2007

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## Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

Amendment 4 to ISO 3874:1997 was prepared by Technical Committee ISO/TC 104, *Freight containers*, Subcommittee SC 1, *General purpose containers*.

The purpose of this amendment is to include 45 foot containers in ISO 3874:1997.

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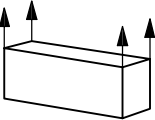
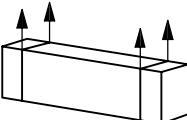
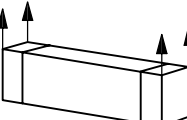
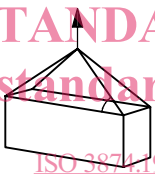

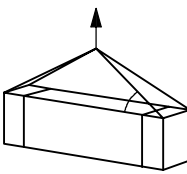


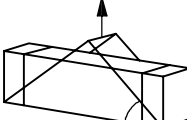
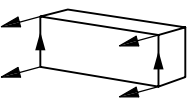
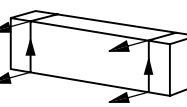
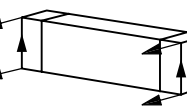
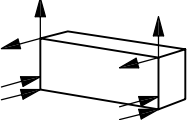
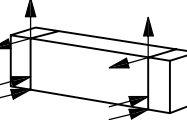
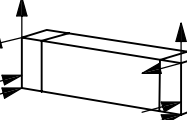
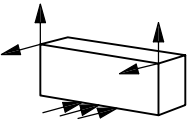
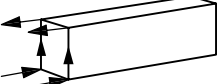
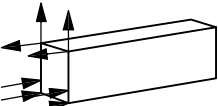
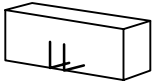
# Series 1 freight containers — Handling and securing

## AMENDMENT 4: 45 ft containers

Page 5

Replace Table 1 with the following:

**Table 1 — Summary of specified lifting methods**

Subclause	Description	Container types A, B, C and D	Container type E at 40 ft position	Container type E at 45 ft position
6.2	Top lift spreader			
6.3	Top lift sling			
6.4	Bottom lift sling			
6.5	Side lift: method 1			
6.6	Side lift: method 2			
6.7	Side lift: method 3		Not applicable to type E (45 ft) containers	Not applicable to type E (45 ft) containers
8	End lift: method 1		Not applicable to type E (45 ft) containers	Not applicable to type E (45 ft) containers
6.9	End lift: method 2		Not applicable to type E (45 ft) containers	Not applicable to type E (45 ft) containers
6.10	Fork-lift		Not applicable to type E (45 ft) containers	Not applicable to type E (45 ft) containers

Replace the existing Table 2 by the following, which includes container types 1EE and 1EEE:

**Table 2 — Size designation referred to in Tables 3 to 12**

Nominal length		External height			
m	ft	< 2 438 mm (8 ft 0 in)	2 438 mm (8 ft 0 in)	2 591 mm (8 ft 6 in)	2 896 mm (9 ft 6 in)
13,716	45	—	—	1EE	1EEE
12	40	1AX	1A	1AA	1AAA
9	30	1BX	1B	1BB	1BBB
6	20	1CX	1C	1CC	—
3	10	1DX	1D	—	—

NOTE All units have a nominal width of 2 438 mm (8 ft 0 in).

**6.2 Top lift spreader**

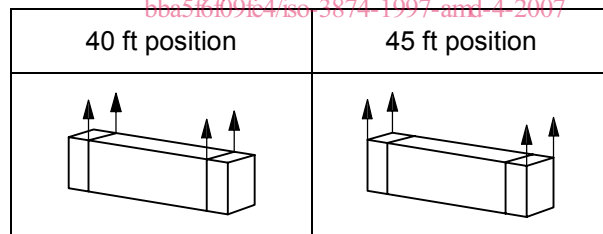
Make the existing Figure 2 into Figure 2a) with the caption:

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**a) Lifting containers other than type E**

Add a new part b) to Figure 2:

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**b) Lifting type E containers**

**Figure 2 — Lifting by means of a top lift spreader**

Replace the existing subclause 6.2.2 by the following:

**6.2.2** Lifting devices shall be properly engaged. Gathering devices shall impinge on corner or intermediate fittings only.

Replace the existing Table 3 by the following, which includes container types EEE and EE.

**Table 3 — Applicability of top lift spreaders**

Key:  Allowed  Not allowed (or not applicable)

Empty container													Container type	ISO 6346	Loaded container															
EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC	C	CX			D	DX	EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC	C	CX	D
															General purpose	GP,VN														
															Open top	UT														
															Bulk: non-pressurized/box	BU														
															Thermal	RE,RT RS														
															Tank for liquids and gases	TN,RT TG														
															Bulk: non-pressurized/hopper pressurized	BK														
															Platform	PL						1)				1)			1)	1)
															complete and fixed ends	PF														
															fixed free-standing posts	PF														
															complete and folding ends, erected condition	PC														
															Platform -based folding free-standing posts, erected condition	PC														
															complete and folding ends, folded condition	PC														
															folding free-standing posts, folded condition	PC														
															Platform-based with complete superstructure and open-sided	PS														

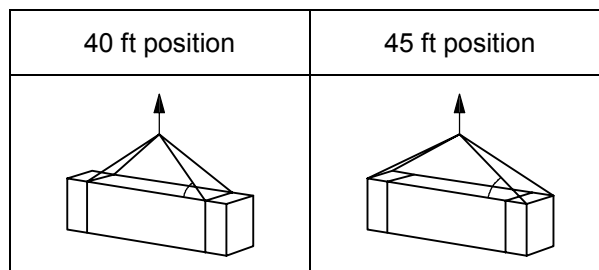
1) Top lift possible with extensions only.

**6.3 Top lift sling**

Make the existing Figure 3 into Figure 3a) with the caption:

**a) Lifting containers other than type E**

Add a new part b) to Figure 3:



**b) Lifting type E containers**

**Figure 3 — Lifting by means of a top lift sling**

Replace the existing subclause 6.3.1 by the following (to include "intermediate"):

**6.3.1** The container is lifted by all four top corner or intermediate fittings with forces applied other than vertically.

Page 8, Table 4

Replace the existing Table 4 by the following, which includes container types EEE and EE:

**Table 4 — Applicability of top slings**

Key:  Allowed  Not allowed (or not applicable)

Empty container														Container type	ISO 6346	Loaded container																			
EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC	C	CX	D			DX	EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC	C	CX	D	DX				
															General purpose	GP, VN																2)			
															Open top	UT																	2)	2)	
															Bulk: non-pressurized/box	BU																	2)	2)	
1)	1)	1)	1)	1)		1)	1)	1)		1)	1)		1)		Thermal	RE, RT RS																	2)		
															Tank for liquids and gases	TN, RT TG																	2)	2)	
															Bulk: non-pressurized/hopper pressurized	BK																	2)	2)	
															Platform complete and fixed ends	PL PF																			
															fixed free-standing posts	PF																			
															complete and folding ends, erected condition	PC																			
															Platform folding free-standing posts, erected condition	PC																			
															-based condition	PC																			
															complete and folding ends, folded condition	PC																			
															folding free-standing posts, folded condition	PC																			
															Platform-based with complete superstructure and open-sided	PS																			

1) Centre of gravity may be eccentric.  
 2) For 1D and 1DX containers, the lifting forces shall be applied at an angle not less than 60° to the horizontal, see Figure 4.

NOTE Centre of gravity may be mobile, e.g. liquid, bulk or hanging loads.

Page 9

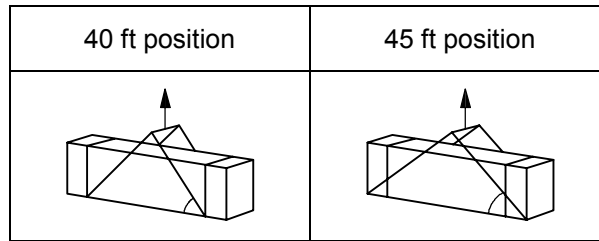
**6.4 Bottom lift sling**

Make the existing Figure 5 into Figure 5a) with the caption:

**a) Lifting containers other than type E**



Add a new part b) to Figure 5:



b) Lifting type E containers

Figure 5 — Lifting by means of a bottom lift sling

Replace the existing subclause 6.4.1 by the following (to include "intermediate"):

**6.4.1** The container is lifted from side apertures of four bottom corner or intermediate fittings by means of slings. The bottom sling attachment shall bear on the corner or intermediate fittings only and should be such to exert lifting forces not more than 38 mm away from the outer face of the corner fittings (see Figure 6).

Page 10, Table 5

Replace the existing Table 5 by the following, which includes container types EEE and EE:

Table 5 — Applicability of bottom lift slings

Key:  Allowed  Not allowed (or not applicable)

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Empty container													Loaded container													ISO 6346																				
EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC	C	CX	D	DX	EEE	EE	AAA	AA	A	AX	BBB	BB	B	BX	CC		C	CX	D	DX	Container type															
																														General purpose	GP, VN															
																														Open top	UT															
																														Bulk: non-pressurized/box	BU	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)
1)	1)	1)	1)	1)		1)	1)	1)		1)	1)	1)																		Thermal	RE, RT RS	1)	1)	1)	1)	1)		1)	1)	1)		1)	1)	1)		
																														Tank for liquids and gases	TN, RT TG															
																														Bulk: non-pressurized/hopper pressurized	BK															
																														Platform	PL															
																														Platform-based	complete and fixed ends	PF														
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																															folding free-standing posts, folded condition	PC														
																														Platform-based with complete superstructure and open-sided	PS															

1) Centre of gravity may be eccentric.  
2) Centre of gravity may be mobile, e.g. liquid, bulk or hanging load.