



DRAFT AMENDMENT ISO 1496-1:1990/DAmD 7

ISO/TC 104/SC 1

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Series 1 freight containers — Specification and testing —

Part 1:

General cargo containers for general purposes

AMENDMENT 7

Conteneurs de la série 1 — Spécifications et essais —

Partie 1: Conteneurs d'usage général pour marchandises diverses

AMENDEMENT 7

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ICS 55.180.10

[ISO 1496-1:1990/DAmD 7](#)

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Foreword

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Amendment 7 to ISO 1496-1:1990 was prepared by Technical Committee ISO/TC 104, *Freight containers*, Subcommittee SC 1, *General purpose containers*.

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Page 4, Sub-clause 5.8

Add the following to the end of 5.8:

5.8.5 Cargo shoring slots

Cargo shoring slots are optional features in all series 1 general purpose containers. The requirements for this feature are specified in Annex G.

Page 9, Sub-clause 6.14

Add the following new test provisions for testing of shoring slots:

6.14 TEST No. 14 Shoring Slots (where fitted)

6.14.1 Procedure

A 50 mm wide, rigid metal bar is to be inserted in each pair of shoring slot supports so that it runs transversely across the container between the two supports. A load equal to 0.6 P is to be distributed across the middle 915 mm (3 ft) of the bar such that the load is applied horizontally towards the container's doors. The doors shall be fully opened during this test. This load shall be maintained on the bar for at least 2 min.

6.14.2 Requirements

At the end of the test neither the shoring slots, the shoring slot supports nor the container itself shall show any permanent deformation or abnormality that will render it unsuitable for continuous service at full load.

Page 24, Annex G

Add a new normative **Annex G (Normative)** after Annex F.

Rename existing Annex G (Informative) to **Annex H (Informative)**.

Annex G (normative)

Shoring slot system

(where provided) {see 5.8.5}

G.1 General

G.1.1 A shoring slot system is designed to restrain the cargo from forcing the door open during sudden stops or tilts of the container during transportation. It also serves to restrain dislocated cargo to prevent it from spilling out of a container when the container's doors are opened.

G.1.2 Shoring slot systems consist of shoring slots and one or more cargo securing bars.

G.1.3 The shoring slot is a permanent fixture into which cargo securing bars or boards can be inserted and which will prevent cargo from placing loads in excess of the container's doors' design loads on the doors during sudden motion.

G.2 Design requirements

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For general purpose containers the shoring slots shall comply with the requirements given in G.2.1 to G.2.6.

G.2.1 The shoring slots shall not infringe on the prescribed minimum internal dimensions as specified in 4.3.

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G.2.2 There shall be a set of two shoring slots in each container located just inward of the rear doors when the doors are in the closed position such that there is a zero clearance between inserted shoring bars and the doors' inner faces. The shoring slots shall be provided at each side wall, from floor to ceiling. The shoring slot design shall provide for a clear container width of at least 2 300 mm (91.55 inches).

G.2.3 The door opening dimensions as specified in 5.7 shall not be obstructed by the shoring slots.

G.2.4 The shoring slots shall be a minimum of 51 mm wide to allow for insertion of one or more shoring bars. The shoring slot shall be fabricated to support a 0.4 *P*_g load applied in the longitudinal direction at any point in the shoring slot.

G.2.5 Supports shall be installed inside each shoring slot to support and hold the shoring bars in place horizontally. The spacing of the shoring supports, in each shoring slot, shall correspond horizontally to each other and be located at least every 380 mm (15 inches) from the floor up. For an eight foot container (a 1A, 1B or 1C container) there shall be a minimum of three (3) supports located in each slot.

G.2.6 Support bars are not part of the container. Bars used should be able to withstand a minimum force of 1 000 kgf (2 205 lbf) in any direction.

G.3 Testing

G.3.1 The shoring system slots must be tested to 1.5 times 0.4 *P*.

G.3.2 On completion of the tests neither the shoring slots nor the container itself shall show any signs of permanent deformation or abnormality that will render it unsuitable for continuous service at full load.