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International Standard  8323

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## Freight containers — Air/surface (intermodal) general purpose containers — Specification and tests

*Conteneurs pour le transport de marchandises — Conteneurs air/surface (intermodaux) pour usage général — Spécifications et essais*

First edition — 1985-07-15

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8323 was prepared jointly by Technical Committees ISO/TC 104, *Freight containers*, and ISO/TC 20, *Aircraft and space vehicles*. It replaces ISO 1496/7-1974, withdrawn in 1984.

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# Freight containers — Air/surface (intermodal) general purpose containers — Specification and tests

## 0 Introduction

### 0.1 General

The basic requirements for the air/surface (intermodal) container are presented in clauses 1 to 6, while the detailed design requirements are laid down in annex A. Annex B sets out the sections of other International Standards which apply to the air/surface container.

ISO 4128 presents the requirements for air mode general purpose containers.

Requirements for containers to be transported by rotary-wing aircraft are excluded from these International Standards. When required, an International Standard will be developed for this type of container.

NOTE — The essential basic and detail criteria are identified by use of the key word "shall". Recommended basic and detail criteria are identified by use of the key word "should", and, while not mandatory, are considered to be of primary importance in providing serviceable, economical and practical air/surface containers

### 0.2 Definition of container type

**air/surface (intermodal) container** : An article of transport equipment having an internal volume of 1 m<sup>3</sup> or more, fitted with top and bottom corner fittings, with restraint provisions compatible with an aircraft restraint system, and an entirely flush base bottom to allow handling on rollerized cargo handling systems.

The container is primarily intended for transport by air and interchange with surface transport modes (road, rail and sea).

## 1 Scope and field of application

**1.1** This International Standard sets out the basic requirements for the specification and testing of air/surface (intermodal) containers for general cargo, which are suitable for international exchange and for conveyance by road, rail and sea as well as by freighter versions of high capacity fixed-wing aircraft, including interchange between these modes of transport.

**1.2** The coding, identification and marking of these containers shall be in accordance with ISO 6346. To denote the container as an air/surface (intermodal) container, the symbol illustrated in figure 1 shall be located at the top left-hand corner of the end walls and side walls and, as appropriate, on the roof, complying with the requirements of ISO 6346 (see annex B.3 of this International Standard).

NOTE — If any other markings are used on the container, they shall in no way interfere with the location of the marks required by ISO 6346

**1.3** The container types covered by this International Standard are :

Type	Marking code identification
Air/surface intermodal (general cargo)	90 to 99 : Fixed wing

## 2 References

ISO 668, *Series 1 freight containers — Classification, external dimensions and ratings.*

ISO 1161, *Series 1 freight containers — Corner fittings — Specification.*

ISO 1496/1, *Series 1 freight containers — Specification and testing — Part 1 : General cargo containers for general purposes.*

ISO 3874, *Series 1 freight containers — Handling and securing.*

ISO 4116, *Ground equipment requirements for compatible with aircraft unit load devices.*

ISO 4128, *Aircraft — Air mode modular containers.*

ISO 6346, *Freight containers — Coding, identification and marking.*

ISO 8097, *Aircraft — Minimum airworthiness requirements and test conditions for certified air cargo unit load devices.*<sup>1)</sup>

1) At present at the stage of draft (*de facto* NAS 3610).