
International Standard



4116

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Ground equipment requirements for compatibility with aircraft unit load devices

Caractéristiques de l'équipement au sol en vue d'assurer sa compatibilité avec les unités de charge d'aéronefs

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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 4116 was developed by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and was circulated to the member bodies in November 1977.

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

Australia	India	Romania
Austria	Ireland	South Africa, Rep. of
Belgium	Israel	Spain
Brazil	Italy	Turkey
Canada	Japan	USA
Chile	Mexico	USSR
France	Netherlands	Yugoslavia
Germany, F.R.	Poland	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia
United Kingdom

Ground equipment requirements for compatibility with aircraft unit load devices

0 Introduction

The term device used in this International Standard is intended to mean aircraft unit load device.

It is intended that this International Standard should apply to equipment manufactured or installed after publication of this International Standard.

1 Scope and field of application

This International Standard specifies requirements for those portions of the aircraft unit load device ground and terminal handling equipment that will have a direct bearing on the life of the device for the purpose of preventing undue wear on the device. (Experience has shown that inadequate design and maintenance of ground equipment increase the cost of unit load devices.)

Included in this International Standard are requirements for conveyor systems, guides, stops and restraint hardware that are used on trucks, transporters, dollies, storage provisions, pallet build-up hoists, or other device-handling equipment.

a) These requirements reflect current criteria applied to known successfully operated hardware. Any design deviations shall be required to demonstrate equivalency to the criteria specified in this International Standard.

b) These devices usually form an integral part of the aircraft and as such are subject to the requirements of regulatory agencies, to assure structural integrity.

The devices (aircraft unit load devices) referred to in this International Standard can be containers, galley modules and pallets for aircraft galley and cargo systems. Size, shape and load capacities of devices are not included herein.¹⁾

2 Equipment requirements

2.1 Conveyor systems for transport of devices

2.1.1 Uni-directional conveyor system (rollers)

Characteristic	Requirement
a) Roller diameter	50 mm (2 in) min.

1) Specification details for these features can be obtained from other International Standards or from International Air Transport Association (IATA) specifications, the airline operator and the device manufacturer.