



**International
Standard**

ISO 7718-2

**Aircraft — Passenger doors
interface requirements for
connection of passenger boarding
bridge or passenger transfer
vehicle —**

**Part 2:
Upper deck doors**

*Aéronefs — Exigences d'interface des portes passagers pour
accouplement d'une passerelle passagers ou de véhicules de
transfert de passagers —*

Partie 2: Portes de pont supérieur

**Third edition
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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 9, *Air cargo and ground equipment*.

This third edition cancels and replaces the second edition (ISO 7718-2:2016), which has been technically revised.

The main changes are as follows:

- the requirements have been revised to be more precise.

A list of all parts in the ISO 7718 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Throughout this document, the minimum essential criteria are expressed as requirements (identified by the verbal form “shall”). Recommended criteria (identified by the verbal form “should”) are, while not mandatory, considered to be of primary importance in providing easily and economically handled aircraft, as well as preventing damage to the aircraft caused by the passenger boarding bridge or transfer vehicle. Deviation from recommended criteria can only occur, after careful consideration, if positively required by basic aircraft-design factors with a significant operational cost impact.

It is not the intent of this document to restrict in any way the basic design of any future types of civil-passenger transport aircraft. It aims, however, at clarifying for aircraft design engineers the design characteristics which would make it difficult or impossible for a new type of aircraft to adequately connect with airport passenger boarding bridges. Should basic aircraft design requirements impose on a future model certain dimensional characteristics not conforming to this document:

- alternative methods of embarking or disembarking passengers must be implemented, such as using the internal aircraft stairs;
- upper deck passenger boarding bridges in the airports where such a new type of aircraft is to operate must undergo some degree of modification or reworking; or
- additional interface devices or equipment must be used in order to connect such a new type of aircraft with existing upper deck passenger boarding bridges.

Each case results in increased aircraft-handling constraints and operating cost.

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Aircraft — Passenger doors interface requirements for connection of passenger boarding bridge or passenger transfer vehicle —

Part 2: Upper deck doors

1 Scope

This document specifies minimum requirements for dimensions and unobstructed space around upper deck passenger doors on the outer skin of civil transport aircraft, applicable when these doors are designed to accept the connection of existing passenger boarding bridges or transfer vehicles.

This document is not applicable to existing models of civil transport aircraft, or derivative models with entry into service up to the year 2000 with the same fuselage, for which the aircraft-mating section of passenger boarding bridges or passenger transfer vehicles is expected to be compatible with ISO 16004.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7718-1, *Aircraft — Passenger doors interface requirements for connection of passenger boarding bridge — Part 1: Main deck doors*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Requirements

4.1 Minimum obstructed space

4.1.1 Unobstructed space on the fuselage of the aircraft shall be provided for the connection of the passenger boarding bridge or passenger transfer vehicle as shown by the hatched area in [Figure 1](#). The hatched area represents the minimum area of unobstructed space.

In [Figure 1](#), the area inside the dotted line represents the maximum area of cabin doors (door opening includes opened door).

4.1.2 The hatched area in [Figure 1](#) shall be kept completely clear of any external features such as aerials, drains, pitot heads, static ports, sensors, incidence probes, aerodynamic strakes, access panels.

4.1.3 Protrusions intended to divert rainwater away from the door opening may appear in the hatched area in [Figure 1](#), provided they are not deemed part of the aircraft's structural or aerodynamic integrity, and they do not interfere with the deployment of the Passenger Boarding Bridge canopy.

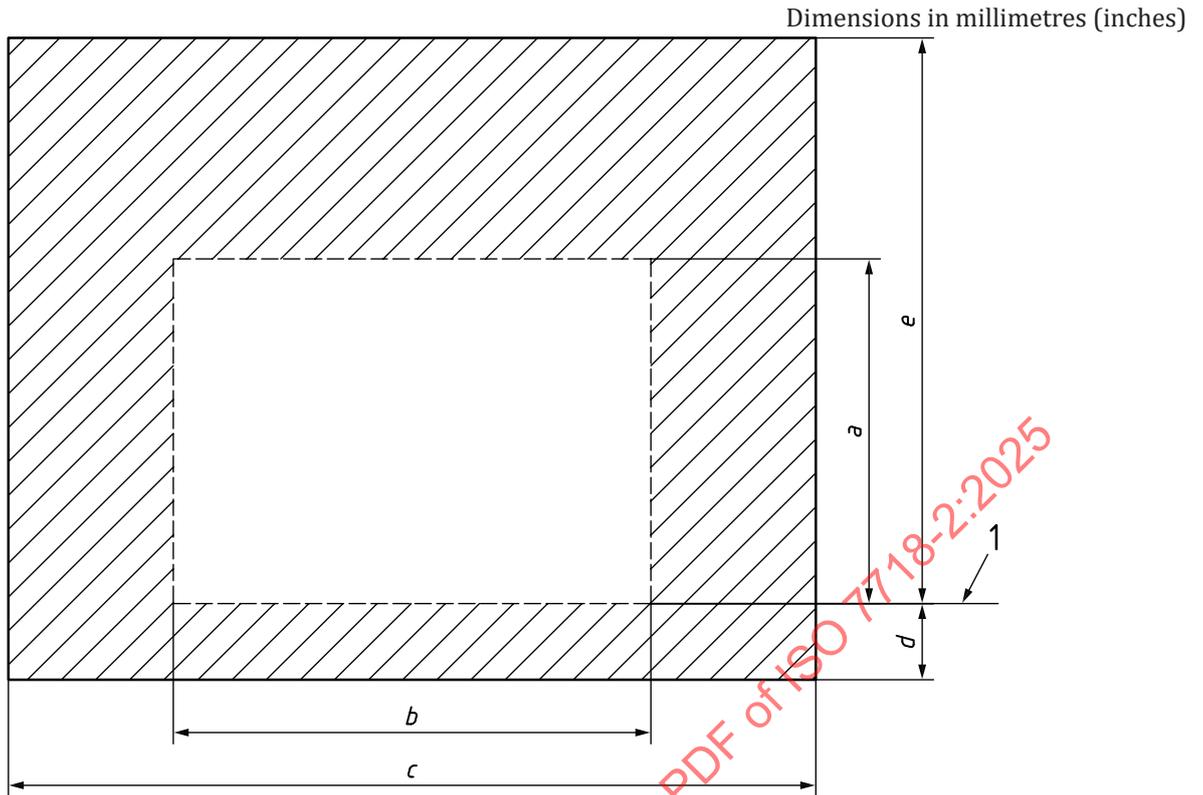
4.2 Minimum radius of the fuselage

The cross-section radius of the fuselage in any part of the hatched area defined in [Figure 1](#) should not be less than 1,6 m (63 in).

4.3 Door sill height

The passenger door sill height above the ground, at any part of its excursion range during normal airport servicing or transit operations, should not exceed 8,4 m (330 in).

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Key

1 door sill height

Parameter	Maximum value	Minimum value	Note
<i>a</i> Cabin door height	2 100 (82,7)	—	Cabin door opening (including opened door)
<i>b</i> Cabin door width	2 850 (112,2)	—	
<i>c</i> Unobstructed width	—	4 800 (189,0)	—
<i>d</i> Unobstructed height below door sill	—	300 (11,8)	—
<i>e</i> Unobstructed height above door sill	—	2 700 (106,3)	—

Figure 1 — Unobstructed area to be provided in the vicinity of upper deck cabin doors

4.4 Main deck bridge compatibility

A passenger boarding bridge which is intended to serve both upper and main deck doors shall meet the requirements of ISO 7718-1 for its design, in addition to those of this document.