
**Air cargo — Double stud tie-down
fittings — Design and testing
requirements**

*Fret aérien — Ferrures d'arrimage à pion double — Exigences de
conception et d'essais*

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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 documents 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).

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For an explanation on 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 the following URL: 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 second edition cancels and replaces the first edition (ISO 9788:1990), which has been technically revised.

The main changes compared to the previous edition are as follows:

- change in title to reflect the amended scope;
- expansion of scope to cover complete double-stud fittings, regardless of material used, instead of only their cast components;
- new [Figure 4](#), examples of ring shapes;
- drawing attention in [4.2.4](#) to zinc chromate's toxicity; and
- addition of a new [Clause 8](#) on Quality Control.

Introduction

This document specifies the design, performance and testing requirements for double stud tie-down fittings intended to be used for cargo restraint on board civil transport aircraft. At the time of publication, no formal Civil Aviation Authority approval (certification) procedure applicable to tie-down fittings.

The civil aviation requirements referred to in this document are those concerning certification of transport aircraft and appliances to be installed aboard them, and constitute the set of design and operation requirements internationally agreed in application of International Civil Aviation Organization (ICAO) Annexes 6, *Operation of aircraft* and 8, *Airworthiness of aircraft*, to the Convention on International Civil Aviation. This document provides one means of compliance for double stud tie-down fittings.

Throughout this document, the minimum essential criteria are identified by use of the key word “shall”. Recommended criteria are identified by use of the key word “should” and, while not mandatory, are considered to be of primary importance in providing safe restraint arrangements on board aircraft. Deviation from recommended criteria should only occur after careful consideration and thorough service evaluation have shown alternate methods to provide an equivalent level of safety.

Dimensions and tolerances are expressed in millimetres.

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