



AEROSPACE INFORMATION REPORT

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Design and Safety Criteria for Passenger Boarding Stairways

RATIONALE

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1. SCOPE AND PURPOSE OF THIS DOCUMENT

This SAE Aerospace Information Report (AIR) is broken into various categories for convenience and ease of identification.

It is the purpose of this document to provide certain criteria for the design and selection of stairways, for the boarding of passengers onto an aircraft. The criteria presented are limited to those factors which affect the safety of the passengers and are coordinated, where applicable, with the practices of the architectural profession, with respect to the design of stairways.

Comprehensive design requirements for passenger stairs can be found in the industry documents listed under 2.1.3, 2.1.4, and 2.1.5 hereafter.

The recommended practices are applicable to both mobile variable-elevation type stairways and to fixed-elevation stairways of the type built into an aircraft fuselage.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of the other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

ARP1247	Aircraft Ground Support Equipment - General Requirements
ARP1328	Aircraft Ground Support Equipment - Wind Stability Determination
AIR1558	Interface Protective Devices – Ground Equipment to Aircraft
AS4828	Technical Manual Requirements for Ground Support Equipment

2.1.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D2047-75 Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces

2.1.3 ISO Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 12056 Aircraft - Self-propelled passenger stairs for large capacity aircraft -- Functional requirements