



AEROSPACE RECOMMENDED PRACTICE

ARP5252™**REV. A**

Issued 2007-01
Revised 2013-06
Reaffirmed 2024-09

Superseding ARP5252

(R) Emergency Portability of Slide/Rafts

RATIONALE

This SAE Aerospace Recommended Practice (ARP) has been revised to provide a procedure for evaluating the effectiveness of instructions given for “portability” and to update the format to current standards.

ARP5252A has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE

This SAE Aerospace Recommended Practice (ARP) recommends design features for facilitating relocation of portable slide/rafts for deployment at an alternate exit under ditching conditions.

1.1 Background

Slide/rafts are a means of providing group flotation for transport airplane cabin occupants in the event of an airplane ditching. They must meet the same rules for use as life rafts at an alternate ditching exit in the event that the ditching exit at which the slide/raft is installed is unusable. This capability is called Portability, i.e., designed to allow removal, relocation and deployment at an alternate, usable exit.

Relocation of slide/rafts from one door to another within an airplane cabin is difficult and potentially dangerous. The slide/raft is typically larger, heavier, and more easily actuated than a typical life raft. Characteristics that make the slide/raft an effective device for evacuation on land and water, under a variety of physical and environmental conditions, make the removal and relocation of the device under emergency ditching conditions a risky task, given the large volumes and energetic inflation profiles of slide/rafts. Therefore, utmost attention must be paid to providing safeguards as a part of designs for portability.

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 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.

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SAE WEB ADDRESS:

Full document details: SAE ARP5252A

For more information on this standard, visit
<https://www.sae.org/standards/content/ARP5252A/>

Documents

Standard, visit Sharing Hub

2.1.1 ANSI Publications

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

ANSI Z535.1 Safety Color Code

ANSI Z535.2 Environmental Facility Safety Signs

ANSI Z535.3 Criteria for Safety Symbols

ANSI Z535.4 Product Safety Sign and Labels

ANSI Z535.5 Accident Prevention Tags

2.1.2 ISO Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org or International Organization for Standardization (ISO), 1, ch. de la Voie-Creuse, Case postale 56, CH-1211 Geneva 20, Switzerland, Tel: +41-22-749-01-11, www.iso.org.

ISO 3864 Safety Colours and Safety Signs

ISO 9186:2001 Procedures for the development and testing of graphical symbols

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Aerospace Technical Report.

2.2.1 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.

ARP503 Emergency Evacuation Illumination

ARP577 Emergency Placarding - Internal and External

2.2.2 Code of Federal Regulations (CFR)

Available from U.S. Government Printing Office, Washington, DC 20402, 732 North Capitol Street, NW, Washington, DC 20401, Tel: 202-512-0000, www.gpoaccess.gov.

14 CFR 25 Airworthiness Standards: Transport Category Airplanes

§ 25.807(i) Ditching Emergency Exits for Passengers

§ 25.812 Emergency Lighting

§ 25.813 Emergency Exit Access

§ 25.815 Width of Aisle

§ 25.1411(d) Life Rafts

§ 25.1415 Ditching Equipment