



AEROSPACE RECOMMENDED PRACTICE

ARP1282™**REV. C**

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Revised 2025-12

Superseding ARP1282B

Survival Kit - Life Rafts and Slide/Rafts

RATIONALE

Minor updates to correct SAE references called out within this spec.

1. SCOPE

This SAE Aerospace Recommended Practice (ARP) applies to survival kits to be carried with life rafts or slide/rafts on transport category airplanes flying extended over-water routes and equipped with approved satellite alerting devices (e.g., 406 MHz Emergency Locator Transmitter [ELT]), available for deployment after an emergency landing.

1.1 Purpose

The purpose of this document is to establish the minimum contents for survival kits so as to enhance health and survivability of airplane occupants after a planned or unplanned landing on open water or a remote land environment.

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.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

AS5134 Aviation Visual Distress Signals (AVDS)

2.1.2 ANSI Publications

Copies of these documents are available online at <https://webstore.ansi.org>.

ANSI Z535.3-2002 Criteria for safety symbols

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SAE WEB ADDRESS:

Full document details: SAE ARP1282C

For more information on this standard, visit
<https://www.sae.org/standards/content/ARP1282C/>

Documents

Standard, visit Sharing Hub

2.1.3 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

Technical Standard Order C142a, Non-Rechargeable Lithium Cells and Batteries

2.1.4 Other Publications

Brajkovic, D. and Ducharme, M. (2003). Finger dexterity, skin temperature, and blood flow during auxiliary heating in the cold. *Journal of Applied Physiology*, 95, 758-770.

Cheung, S, Montie, D., White, M., and Behm, D. (2003). Changes in manual dexterity following short-term hand and forearm immersion in 10 °C Water. *Aviation, Space, and Environmental Medicine*, 74, 990-993.

Havenith, G., Heus, R., and Daanen, H.A.M. (1995). The hand in the cold, performance and risk. *Arctic Medical Research*, 54 (Suppl. 2), 37-47.

2.2 Related Publications

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

2.2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

AIR5690 Rationale for Replacement of Pyrotechnic Signaling Devices in Survival Kits on Transport Category Aircraft Life Rafts and Slide-Rafts

AS1356 Life Rafts

AS8994 Emergency Evacuation Slides, Ramps, Ramp/Slides, and Slide/Rafts

2.2.2 Code of Federal Regulations (CFR) Publications

Copies of these documents are available online at www.ecfr.gov.

14 CFR § 25.1415(c), Ditching equipment

14 CFR § 91.509, Survival equipment for overwater operations

14 CFR § 121.339, Emergency equipment for extended overwater operations

14 CFR §125.209, § 135.167, Emergency equipment: Extended overwater operations

2.2.3 EASA Publications

Available from European Union Aviation Safety Agency, Konrad-Adenauer-Ufer 3, D-50668 Cologne, Germany, Tel: +49 221 8999 000, www.easa.europa.eu.

Certification Specifications for Large Aeroplanes, Book 1, Subpart F, § 25.1415, Ditching Equipment

2.2.4 FAA Publications

Available from Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591, Tel: 866-835-5322, www.faa.gov.

Technical Standard Order C12c (or later revision), Life Rafts (Twin Tube) (Cancelled)

Technical Standard Order C69a (or later revision), Emergency Evacuation Slides, Ramps, Ramp/Slides, and Slide/Rafts

Technical Standard Order C70a, Liferrafts (Reversible and Nonreversible)

Advisory Circular 120-47, Survival Equipment for Overwater use

2.2.5 Transport Canada Publications

Available from Transport Canada, Tower C, Place de Ville, 330 Sparks Street, Ottawa, Ontario K1A 0N5, Canada, Tel: 1-888-830-4911, www.tc.canada.ca.

Canadian Aviation Regulations, Part V, § 525.1415, Ditching equipment

Canadian Aviation Regulations, Part VI, § 602.63, Life rafts and survival equipment – Flights over water

Canadian Aviation Regulations, Part VI, § 604.116, Survival equipment

Canadian Aviation Regulations, Part VII, § 704.86, § 705.95, Survival equipment

2.3 Definitions

APPROVED: Refers to equipment that meets design and/or performance standards established by the FAA, other national aviation authorities, the U.S. Coast Guard, SOLAS (Safety of Life at Sea), SAE, or internationally recognized Search and Rescue organizations.

CHILLED HANDS TEST: A technique to simulate the reduced dexterity of chilled hands that may occur during an emergency in a cold environment. A naïve test participant simultaneously submerges left and right forearms and hands in 50 °F (10 °C) water for 2 minutes, quickly dries, and immediately (within 5 seconds following immersion) attempts to open/operate designated packaging/equipment. The participant should be healthy, and wear a loose-fitting, sleeveless upper garment that does not inhibit blood-flow to the arms and hands.

EXTENDED OVER-WATER ROUTE: A route or operation over water at a horizontal distance of more than 50 NM from the nearest shoreline.

GLOVED HANDS TEST: A technique to simulate the reduced dexterity of chilled hands that may occur during an emergency in a cold environment. A naïve test participant wears 2 mm thick (minimum), smooth-surfaced, neoprene gloves to open/operate designated packaging/equipment.

2.3.1 Mandating and Recommending Words

SHALL: Indicates a mandatory criterion.

SHOULD: Indicates a criterion for which an alternative, including noncompliance, may be applied if it is documented and justified.