

**AEROSPACE  
RECOMMENDED  
PRACTICE**

**SAE** ARP496

**REV.  
D**

Issued 1957-08  
Revised 2000-03  
Cancelled 2007-11

Superseding ARP496C

Stowage of Cabin Emergency Flotation Equipment

RATIONALE

The contents of this document were incorporated into ARP997C - Installation and Stowage Provisions for Emergency Equipment in the Transport Aircraft Passenger Cabin, which was published on January 24th, 2007. Therefore, ARP496C - Stowage of Cabin Emergency Flotation Equipment is being cancelled.

CANCELLATION NOTICE

This document has been declared "CANCELLED" as of November 2007. By this action, this document will remain listed in the Numerical Section of the Aerospace Standards Index.

SAENORM.COM : Click to view the full PDF of ARP496d

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2007 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

**TO PLACE A DOCUMENT ORDER:** Tel: 877-606-7323 (inside USA and Canada)  
Tel: 724-776-4970 (outside USA)  
Fax: 724-776-0790  
Email: CustomerService@sae.org  
**SAE WEB ADDRESS:** <http://www.sae.org>

## SAE ARP496 Revision D

### FOREWORD

Changes in this revision are format/editorial only.

#### 1. SCOPE:

The scope of this Aerospace Recommended Practice (ARP) is to establish the criteria for aircraft installations which shall ensure rapid and effective use of emergency flotation equipment in the event of ditching.

#### 2. REFERENCES:

NOTE: This ARP should be read in conjunction with the following ARP's.

##### 2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

ARP495 Passenger Evacuation Devices-Civil Air Transport  
ARP503 Emergency Evacuation Illumination  
ARP577 Emergency Placarding - Internal and External  
ARP766 Restraint Device for Small Children  
ARP767 Impact Protective Design of Occupant Environment - Transport Aircraft  
ARP917 Stowage of Flight Crew's Survival, Emergency and Miscellaneous Equipment  
ARP997 Passenger Cabin Emergency Equipment Stowage  
ARP1146 Combination Evacuation Slide/Raft  
ARP1356 Life Rafts

## SAE ARP496 Revision D

### 3. DEFINITION:

This ARP concerns emergency flotation equipment and devices, required by the Federal Aviation Regulations, which passengers and crew members may be required to obtain and operate in a ditching situation. Equipment and devices include individual inflatable life preservers, life rafts, combination slide/rafts and accessory survival gear, and auxiliary flotation equipment (such as evacuation slides and seat cushions).

NOTE: It is not the purpose of this ARP to specify the design method or specific mechanism or equipment to be used in accomplishment of the objectives set forth herein.

### 4. DETAIL RECOMMENDATIONS:

#### 4.1 Individual Life Preserver:

- 4.1.1 The installed location of each device shall be clearly indicated to the occupant when seated.
- 4.1.2 The installation shall permit ready removal of the device from its stowed position by the occupant while in a seated position and with seat belt fastened.
- 4.1.3 Additional individual life preservers shall be provided for cabin occupants who may not be occupying their normal seats, i.e. seated in lounges etc., where occupancy of such seats is approved for landing, take-off or planned ditching stations. Individual life preservers shall also be provided for children.
- 4.1.4 The individual life preserver stowage facility shall be designed to prevent the possibility of access to the device becoming obstructed by such items as underseat baggage or seat upholstery attachments. It shall be designed to preclude the possibility of interference or confusion with other aircraft equipment, i.e., oxygen masks.
- 4.1.5 The time required to don the individual life preserver shall not be significantly extended by virtue of secondary packaging arrangements, i.e., protective containers, securing devices or safety seals.
- 4.1.6 Stowage facilities for these individual life preservers shall provide protection from damage. Stowage shall be accomplished in such a manner as to facilitate check for continued presence of unit, condition and necessary other data without disturbing the packaged device.
- 4.1.7 Life preserver stowage shall be designed to hold the life preserver securely in place under impact loads equal to those required for the passenger seats installed in the aircraft.

#### 4.2 Life Rafts:

- 4.2.1 Life rafts shall be installed in the vicinity of the exit opening through which their launching is expected.

**SAE ARP496 Revision D**

- 4.2.2 Raft stowage shall be designed to hold the raft securely in place under impact loads equal to those required for the passenger seats installed in the aircraft.
- 4.2.3 Stowage locations shall be conspicuously and clearly placarded. Placarding and lighting shall conform to appropriate ARP.
- 4.2.4 Stowage facilities shall allow for releasing and positioning the raft at its assigned launching location quickly and easily. The design and placarding shall where practical, contemplate performance of these operations by passengers. Stowage shall be accomplished in such a manner to facilitate check for continued presence of unit, condition and necessary other data without disturbing the packaged device.
- 4.2.5 Stowage provisions for rafts shall preclude inadvertent actuation of the inflation release mechanism or damage to the raft during stowage or removal.
- 4.2.6 No obstruction to launching of the raft or evacuation of occupants shall be caused by an portion of the stowage facilities such as an open hatch cover or container.
- 4.2.7 Means of attaching raft static lines shall be provided on aircraft structure directly adjacent to all launching openings. Each attachment point shall permit rapid unrestricted attachment of twice as many rafts as are expected to be deployed through the adjacent launching opening. The use and location of the attachment means shall be self evident. The attachment means shall have a minimum strength of 300 pounds.
- 4.3 Slide/Raft:
- 4.3.1 Slide/raft shall be installed on or in the immediate vicinity of the exit door.
- 4.3.2 Slide/raft stowage location shall be conspicuously and clearly placarded. Placarding and lighting shall conform to appropriate ARP.
- 4.3.3 Stowage shall be designed to hold the slide/raft securely in place under impact loads equal to those required for passenger seats installed in the aircraft.
- 4.3.4 No obstruction to launching of slide/raft or evacuation of occupants shall be caused by any portion of the stowage facilities, such as an open hatch cover or containers.
- 4.3.5 Stowage facilities shall allow for quick and easy deployment of the slide/raft. Stowage shall allow for quick and easy removal of the packed slide/raft for transportation to other launching stations. The design placarding shall where practical, contemplate performance of these operations by passengers. Stowage shall be accomplished in such a manner to facilitate check for continued presence of unit and necessary other data without disturbing the packaged device.
- 4.3.6 Means shall be provided to preclude inadvertent actuation of the inflation release mechanism during removal and/or transportation to a secondary launching station.