

TSO for Berthing Divans and Seats with
Features that Require the Release of the Occupant Restraint

RATIONALE

This Aerospace Resource Document (ARD) provides technical and non-technical information to support a technical report.

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1. SCOPE

AS8049A currently requires adjustable features on aircraft seats to be designed so they can be returned to the positions required for taxi, takeoff and landing by the occupant without the release of the occupant restraints. This ARD will demonstrate Aviation Industry support for revisions to TSO-C39c and TSO-C127a to allow Technical Standard Order (TSO) approval of aircraft seat products designed with adjustable features that require the release of occupant restraints to return the feature to the taxi, takeoff and landing position.

1.1 Purpose

This ARD will provide the technical evaluation and recommendation to FAA Engineering Division AIR-120 from the SAE SEAT Committee for changes to TSO-C127a and TSO-C39c to allow for approval of seats with a conversion feature (e.g., berthable divans, full lie-flat seats, etc.) that require the release of the occupant restraints to return the seat to the taxi, takeoff and landing position. This ARD will also recommend these same changes be made to the next revision of AS8049.

1.2 Applicability

This document applies to AS8049A Section 3.2.6. with regard to seats with a conversion feature that require the release of the occupant restraints to return the seat to the taxi, takeoff and landing position.

1.3 Product Classification

This document covers all passenger seats for use in aircraft type-certificated as defined in AS8049A Section 1.3.

2. REFERENCES

2.1 Applicable Documents

As a resource document, nothing in this document shall supersede existing SAE documents, or applicable laws and regulations.

2.1.1 SAE Publications

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

AS8049A Performance Standards for Seats in Civil Rotorcraft, Transport Aircraft, and General Aviation Aircraft

2.1.2 Code of Federal Regulations (CFR) Publications

Available from the U.S. Government Printing Office, Superintendent of Documents, Mail Stop SSOP, Washington, D.C., 20402-9328.

Code of Federal Regulations, Title 14 Part 23 (14 CFR Part 23), "Airworthiness Standards: Normal, Utility, and Acrobatic Category Airplanes"

Code of Federal Regulations, Title 14 Part 25 (14 CFR Part 25), "Airworthiness Standards: Transport Category Airplanes"

Code of Federal Regulations, Title 14 Part 27 (14 CFR Part 27), "Airworthiness Standards: Normal Category Rotorcraft"

Code of Federal Regulations, Title 14 Part 29 (14 CFR Part 29), "Airworthiness Standards: Transport Category Rotorcraft"