



AEROSPACE INFORMATION REPORT

AIR8619™

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Arresting Cable Traversing Considerations for Landing Gear

RATIONALE

There are currently various SAE and other documents that deal with the considerations for arresting cables on landing gear when stopping the aircraft, particularly in terms of landing gear loading, but no SAE document deals with the considerations for landing gear when traversing arresting cables. This document aims to summarize the available information on considerations for landing gear when traversing arresting cables into a single reference.

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1. SCOPE

This SAE Aerospace Information Report (AIR) discusses the potential considerations for landing gear that may have to traverse arresting cables. This can be a consideration for civil aircraft and aircraft without arresting hooks that operate into dual use (military and civil) airfields.

2. 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 SAE Publications

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

AIR1904	Tire Spray Suppression - Airplane Design and Consideration for
ARP1538	Arresting Hook Installation, Land-Based Aircraft
AS8860	Landing Gear Structural Requirements as Listed in the MIL-886X Series of Specifications

2.2 Code of Federal Regulations (CFR) Publications

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

14 CFR Part 23	Airworthiness Standards: Normal Category Airplanes
14 CFR Part 25	Airworthiness Standards: Transport Category Airplanes

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.

CS-25	Certification Specifications for Large Aeroplanes
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2.4 FAA Publications

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

FAA AC 150/5220-9	Aircraft Arresting Systems on Civil Airports
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2.5 U.S. Government Publications

Copies of these documents are available online at <https://quicksearch.dla.mil>.

FC 3-260-18F	Facilities Criteria (FC) Air Force Aircraft Arresting Systems (AAS) Installation, Operation, and Maintenance (IO&M)
MIL-A-18717	Arresting Hook Installation, Aircraft
MIL-DTL-5041	Detail Specification Tires, Ribbed Tread, Pneumatic, Aircraft
MIL-HDBK-2066	Catapulting and arresting gear forcing functions for aircraft structural design

