

Federal Aviation Regulation

▼ Sec. 25.963

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart E--Powerplant	Fuel System

Sec. 25.963

Fuel tanks: general.

- (a) Each fuel tank must be able to withstand, without failure, the vibration, inertia, fluid, and structural loads that it may be subjected to in operation.
- (b) Flexible fuel tank liners must be approved or must be shown to be suitable for the particular application.
- (c) Integral fuel tanks must have facilities for interior inspection and repair.
- (d) Fuel tanks within the fuselage contour must be able to resist rupture, and to retain fuel, under the inertia forces prescribed for the emergency landing conditions in Sec. 25.561. In addition, these tanks must be in a protected position so that exposure of the tanks to scraping action with the ground is unlikely.
- [(e) Fuel tank access covers must comply with the following criteria in order to avoid loss of hazardous quantities of fuel:
 - (1) All covers located in an area where experience or analysis indicates a strike is likely must be shown by analysis or tests to minimize penetration and deformation by tire fragments, low energy engine debris, or other likely debris.
 - (2) All covers must be fire resistant as defined in Part 1 of this chapter.]
- (f) For pressurized fuel tanks, a means with fail-safe features must be provided to prevent the buildup of an excessive pressure difference between the inside and the outside of the tank.

Amdt. 25-69, Eff. 10/30/89

▶ Comments

▼ Document History

Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. [88-10](#); Issued on 05/10/88.

Final Rule Actions:

Final Rule. Docket No. [25614](#); Issued on 09/25/89.