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▼ Sec. 25.561

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart C--Structure	Emergency Landing Conditions

Sec. 25.561

General.

(a) The airplane, although it may be damaged in emergency landing conditions on land or water, must be designed as prescribed in this section to protect each occupant under those conditions.

(b) The structure must be designed to give each occupant every reasonable chance of escaping serious injury in a minor crash landing when--

(1) Proper use is made of seats, belts, and all other safety design provisions;

(2) The wheels are retracted (where applicable); and

(3) The occupant experiences the following ultimate inertia forces relative to the surrounding structure:

(i) Upward--2.0g.

(ii) Forward--9.0g.

(iii) Sideward--1.5g .

(iv) Downward--4.5g, or any lesser force that will not be exceeded when the airplane absorbs the landing loads resulting from impact with an ultimate descent velocity of five f.p.s. at design landing weight.

(c) The supporting structure must be designed to restrain, under all loads up to those specified in paragraph (b)(3) of this section, each item of mass that could injure an occupant if it came loose in a minor crash landing.

► Comments

▼ Document History

Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. [64-28](#); Issued on 05/14/64.

Final Rule Actions:

Final Rule. Docket No. [5066](#); Issued on 11/03/64.