

Federal Aviation Regulation

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Sec. 25.1419

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart F--Equipment	Safety Equipment

Sec. 25.1419

Ice protection.

- (a) If certification with ice protection provisions is desired, compliance with this section must be shown.
- (b) The airplane must be able to safely operate in the continuous maximum and intermittent maximum icing conditions determined under Appendix C. An analysis must be performed to establish, on the basis of the airplane's operational needs, the adequacy of the ice protection system for the various components of the airplane.
- (c) In addition to the analysis and physical evaluation prescribed in paragraph (b) of this section, the effectiveness of the ice protection system and its components must be shown by--
- (1) Laboratory dry air or simulated icing tests, or a combination of both, of the components or models of the components;
 - (2) Flight dry air tests of the ice protection system as a whole, or of its individual components;
 - (3) Flight tests of the airplane or its components in measured simulated icing conditions; or
 - (4) Flight tests of the airplane in measured natural atmospheric icing conditions.
- (d) For turbine engine powered airplanes, the ice protection provisions of this section are considered to be applicable primarily to the airframe. For the powerplant installation, certain additional provisions of Subpart E of this part may be found applicable.