



Designation: F3454 – 21

Standard Practice for Alerting Methods in Aircraft¹

This standard is issued under the fixed designation F3454; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This practice provides guidance for how an applicant can show compliance to the requirements for Warnings, Cautions, and Advisory Indications to the responsible crew-member.

1.2 An applicant intending to propose this information as Means of Compliance for a design approval must seek guidance from their respective oversight authority (for example, published guidance from applicable civil aviation authority (CAA)) concerning the acceptable use and application thereof. For information on which oversight authorities have accepted this practice (in whole or in part) as an acceptable Means of Compliance to their regulatory requirements (hereinafter “the Rules”), refer to the ASTM Committee F44 web page (www.astm.org/COMMITTEE/F44.htm).

1.3 *Units*—This document may present information in SI units, English Engineering units, or both; the values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This practice is under the jurisdiction of ASTM Committee F44 on General Aviation Aircraft and is the direct responsibility of Subcommittee F44.10 on General.

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2. Referenced Documents

2.1 ASTM Standards:²

2.1.1 Following is a list of external standards referenced throughout this practice. In all cases, later document revisions are acceptable if shown to be equivalent to the listed revision, or if otherwise formally accepted by the governing CAA; earlier revisions are not acceptable.

F3060 Terminology for Aircraft

F3061/F3061M Specification for Systems and Equipment in Small Aircraft

F3180/F3180M Specification for Low-Speed Flight Characteristics of Aircraft

F3117/F3117M Specification for Crew Interface in Aircraft

F3230 Practice for Safety Assessment of Systems and Equipment in Small Aircraft

2.2 FAA Document:³

Advisory Circular (AC) 23-8 Flight Test Guide for Certification of Part 23 Airplanes

3. Terminology

3.1 *Definitions*—For general terminology, refer to Terminology F3060.

4. Significance and Use

4.1 This practice proposes the characteristics of alerting methods, including Stall Warning Alerts.

4.2 The Stall Warning Alerts may be used as part of the compliance approach for Stall Characteristics, Stall Warning, and Spins applicable to Normal Category Aeroplanes, using Specification F3180/F3180M, Stall Warning, while characteristics of all of the alert methods may be used to supplement Specification F3117/F3117M.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from Federal Aviation Administration (FAA), 800 Independence Ave., SW, Washington, DC 20591, <http://www.faa.gov>.