



Standard Guide for Compliance with Light Sport Aircraft Standards¹

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1. Scope

1.1 This document provides guidance to assist manufacturers in understanding and meeting ASTM standards for light sport aircraft. This guidance material presents philosophies, practices and considerations recommended by industry consensus, but does not present technical or business requirements that must be met.

1.2 It is the intent of this guide to provide processes to be considered by organizations looking to develop or improve objective evidence of compliance for light sport aircraft. It does not attempt to identify all of the standards, regulations or other requirements that may be applicable to a given aircraft, production or testing process.

1.3 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- F2245 Specification for Design and Performance of a Light Sport Airplane
- F2295 Practice for Continued Operational Safety Monitoring of a Light Sport Aircraft
- F2483 Practice for Maintenance and the Development of Maintenance Manuals for Light Sport Aircraft
- F2746 Specification for Pilot's Operating Handbook (POH) for Light Sport Airplane
- F2839 Practice for Compliance Audits to ASTM Standards on Light Sport Aircraft
- F2972 Specification for Light Sport Aircraft Manufacturer's Quality Assurance System
- F3035 Practice for Production Acceptance in the Manufac-

ture of a Fixed Wing Light Sport Aircraft
F3060 Terminology for Aircraft

2.2 FAA Standards:³

FAA Advisory Circular No. 23.629-1B Means of Compliance with Title 14 CFR, Part 23, Section 23.629, Flutter
FAA JASC (Joint Aircraft System/Component) Codes

2.3 Other References:

ATA (Air Transport Association) Spec 100, or the newer iSpec 2200—Information Standards for Aviation Maintenance⁴

Metallic Materials Properties Development and Standardization (MMPDS, formerly MIL-HDBK-5)⁵

CMH-17 (formerly MIL-HDBK-17) for composite material properties⁵

CICTT (Commercial Aviation Safety Team/International Civil Aviation Organization Common Taxonomy Team) International Standard for Aircraft Make, Model, and Series Groupings – Business Rules, October 2012 (1.3)⁶

3. Terminology

3.1 The following are a selection of relevant terms. See Terminology F3060 for more definitions and abbreviations.

3.2 Definitions:

3.2.1 *compliance package*—a set of documents which provides objective, verifiable evidence for compliance to applicable ASTM standards.

3.2.2 *compliance program*—a set of activities planned for, executed, and for which results are reviewed against ASTM standards for the purpose of declaring compliance to a particular standard.

3.2.2.1 *Discussion*—The program may be short and simple or extensive and comprehensive, depending on the standard or purpose of the program (for example, initial design versus modification).

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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>.

⁴ Available from <http://www.airlines.org>.

⁵ Available from <http://www.everyspec.com>.

⁶ Available from <http://intlaviationstandards.org>.