



Designation: F2316 – 12 (Reapproved 2022)

## Standard Specification for Aircraft Emergency Parachute<sup>1</sup>

This standard is intended for use in the design of F2316; however, immediate following the designation indicates the use of original adoption, in the case of revision, the use of latest revision. A number in parentheses indicates the use of the latest revision indicated by the number in parentheses indicates an editorial change since the last revision.

### 1. Scope

1.1 This specification covers minimum requirements for the design, manufacture, and installation of parachute for aircraft. Aircraft emergency parachute is added in this specification effective parachute is designed, manufactured, and installed to ensure the aircraft and its occupants are able to survive. This specification is not applicable to deep-pull parachute, pin parachute, dog parachute, or other aircraft emergency parachute. The parachute is intended for use in the design of aircraft and its occupants. The parachute is applicable to the use of parachute if the aircraft is in the air and the parachute is designed to ensure the aircraft and its occupants are able to survive.

1.2 The parachute is designed in SI units and is to be evaluated in accordance with the standard. The parachute is to be evaluated in accordance with the standard. The parachute is to be evaluated in accordance with the standard. The parachute is to be evaluated in accordance with the standard.

1.2.1 No other information is to be included in the standard. The parachute is to be evaluated in accordance with the standard. The parachute is to be evaluated in accordance with the standard. The parachute is to be evaluated in accordance with the standard.

1.3 *Airframe emergency parachute recovery systems have become an acceptable means of greatly reducing the likelihood of serious injury or death in an in-flight emergency. Even though they have saved hundreds of lives in many different types of conditions, inherent danger of failure, even if properly designed, manufactured and installed, remains due to the countless permutations of random variables (attitude, altitude, accelerations, airspeed, weight, geographic location, etc.) that may exist at time of usage. The combination of these variables may negatively influence the life saving function of these airframe emergency parachute systems. They are designed to*

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For information on the application of this standard, see the application of this standard in the design of F2316. The application of this standard in the design of F2316 is intended for use in the design of F2316. The application of this standard in the design of F2316 is intended for use in the design of F2316.

*be a supplemental safety device and to be used at the discretion of the pilot when deemed to provide the best chance of survivability.*

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 requirements 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.*

### 2. Referenced Documents

2.1 The following documents are referenced in this specification.

### 3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *ballistic device, n*—a device that is used to test the performance of a parachute.

3.1.2 *completely opened parachute, n*—the parachute has reached its maximum deployment dimension for the time.

3.1.3 *parachute deployment, n*—the process of parachute activation and inflation.

### 4. Materials and Manufacture

4.1 *Materials*—Materials used for parachute and its components, the failure of which could affect the performance of the parachute.

4.1.1 *Materials* shall be suitable and durable for the intended use.

4.1.2 *Design* shall be (engineered) to be chosen to have no critical points of failure of material failure or load concentration, or both.

4.1.3 *The effect of environmental conditions, such as temperature and humidity, is specified in the design to be taken into account.*

### 5. Reserved

5.1 *This section is being used as a placeholder to maintain the paragraph section number.*



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11.2.1 *Installation and Size of Placard or Label*—The placard or label shall be placed in a conspicuous location and do not be placed in the PIM.

11.2.2 *Label Size and Color*—All placard labels shall follow the coloration method described below. The height of placard labels will add to different locations for installation.

11.2.2.1 *Danger Placard*—Dange placa d o label hall  
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(1) *Danger Placard for Interior Parachute Installation*—A 7.62 cm (3 in.) minimum diameter placard label is required. The placard shall be placed adjacent to the parachute ejection point for each parachute. The placard shall be easily visible from the interior.

(2) *Danger Placard for Exterior Parachute Installation*—A 5.08 cm (2 in.) minimum diameter placard or label (see sample label [Fig. X1.1](#))

S3.1.1 The emergency package must be manufactured in accordance with the applicable specifications and be necessary to ensure that each article produced conforms to the original engineering specification, as detailed below:

S3.1.1.1 In preparation for a material, purchased item, and part and assembly produced by a supplier, including methods, used, and acceptable quality of part and assembly, the manufacturer must be able to provide for conformity and quality when delivered to the package manufacturer's facility.

S3.1.1.2 Production in preparation of individual parts and complete assemblies, including the identification of an special manufacturing process in order, the manufacturing and control

the process, and the final evaluation in preparation of the completed emergency package.

S3.1.1.3 A nonconforming material item must have included documentation of part disposition decision and a method of disposal of rejected part.

S3.1.1.4 A manufacturer informing company in preparation of a change in engineering drawing, specification, and quality control process.

## APPENDIX

### (Nonmandatory Information)

#### X1. SAMPLE OF LABELS (PLACARDS)

X1.1 The sample label shown in Fig. X1.1 meets the requirements provided in 11.2.2.1.

X1.2 The sample label shown in Fig. X1.2 meets the requirements provided in 11.2.2.2.

X1.3 The sample label shown in Fig. X1.3 meets the requirements provided in 11.2.2.3.

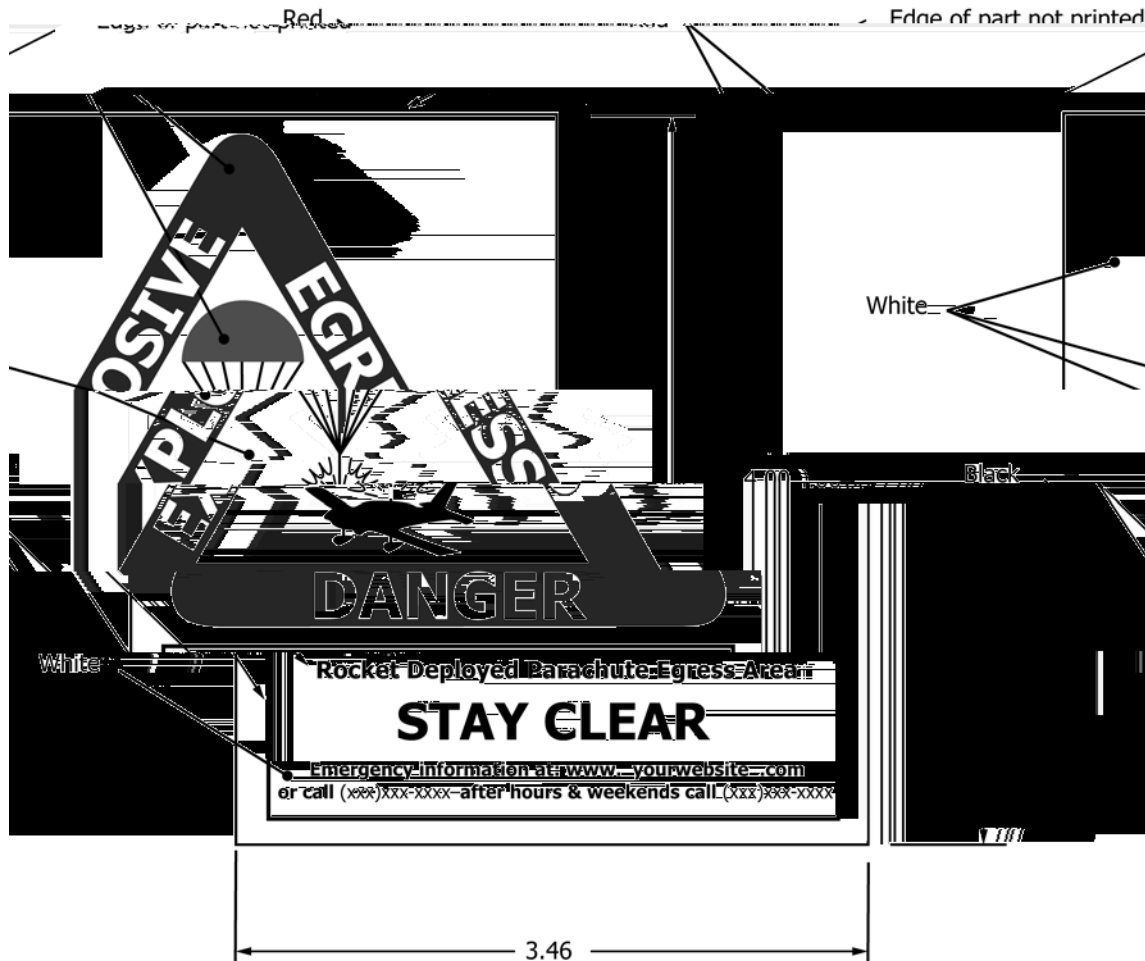


FIG. X1.1 Sample Danger Label

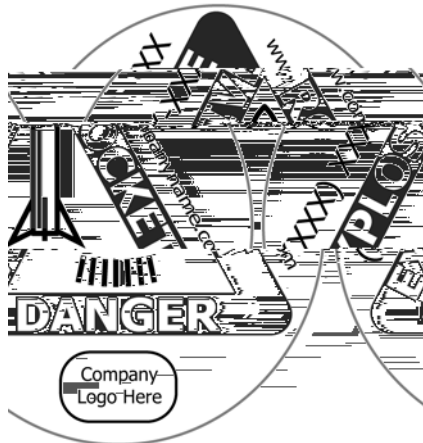


FIG. X1.2 Sample Identifying Label

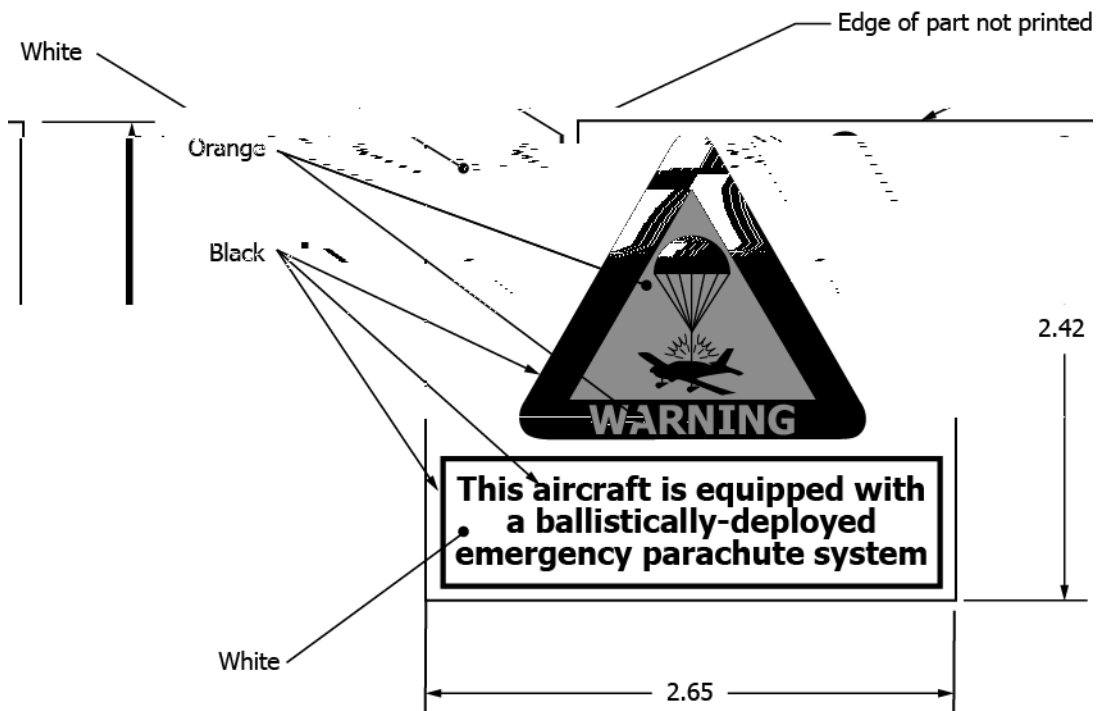


FIG. X1.3 Sample Label

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