

CS 31GB.14 Mass limits

ED Decision 2011/012/R

The range of masses over which the balloon may be safely operated must be established and at least consists of:

1. maximum mass

The maximum mass is the highest mass at which compliance with each applicable requirement of CS-31GB is shown. The maximum mass must be established so that it is not more than the least of:

1. the maximum mass selected for the product;
2. the design maximum mass, which is the highest mass at which each structural loading condition is shown; or
3. the maximum mass at which compliance with each applicable flight requirement is shown.

2. minimum mass

The minimum mass is the lowest mass at which compliance with each applicable flight requirement is shown.

Mass limitation information related to safe operation of the balloon must be included in the Flight Manual. (See [CS 31GB.81\(b\)\(2\)](#))

AMC 31GB.14(a) Mass limits

ED Decision 2011/012/R

The maximum mass corresponds to the maximum buoyancy. The lift-producing medium is not part of the maximum mass.

AMC 31GB.14(b) Minimum mass

ED Decision 2011/012/R

Minimum mass. The determination of the minimum mass should take into consideration that the controllability of the balloon might be affected by a low internal pressure at low mass.

At least the following should be demonstrated:

In landing configuration with minimum crew, untaut condition and already disposed minimum ballast, all controls (e.g. parachute, valve, rip panel, control lines, etc.) should have a positive performance and function easily and smoothly.

Note: An untaut condition is a flight with a 'slack' envelope and open appendix.

CS 31GB.16

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Last update: **2023/08/31 11:35**

