

PROPOSALS FOR A ROGALLO STANDARD CLASS1. Purpose

To provide a class of flexible wing gliders of comparable performance controlled by weight shift only which can be flown safely by unexperienced pilots.

2. Airworthiness

The aircraft must conform to the standards of the hang glider manufacturer federation of the country of origin or equivalent, or to National Airworthiness Standards where these are required by law.

3. Obligatory Requirements3.1. Nose Angle

The nose angle shall not exceed 90°. The distance between the tube centres at the position of the nose plate bolts shall not exceed 15 cm. (5.8 inches)

3.2. Tubes

There will be 4 structural tubes only (2 leading edge tubes, 1 keel tube and one crosstube). Tubes shall be circular in section with parallel walls and straight throughout their total length. No performed curvature of tubes is permitted (3.9)

3.3. Bracing

The bracing arrangements must be connected to a king post unless the aircraft is strut braced. No additional bracing arrangements other than those directly carrying the flying and landing loads are permitted.

3.4. Sail

The sail must be a single sail without openings or divisions. The billow of the sail shall not be less than 3,5°.

3.5. Battens

Flat battens of constant chord and thickness and radially arranged are permitted. Preformed battens are prohibited.

3.6. Aspect Ratio

The aspect ratio of the sail shall not exceed 3,5

3.7. Minimum Weight

The aircraft without pilot, harness, instruments and ballast shall not weigh less than 17 kg (37.5 lb)

3.8. Wing Loading

The minimum wing loading shall be 3.7 kg/m² in flying trim with pilot. If necessary ballast must be added to the pilot's seat to correct. The maximum wing loading shall not exceed 6 kg/m² (approx..75lb to 1.2 lb)

3.9. Tuning

Fine tuning on the ground of dihedral and single reflex of the keel by bracing wire adjustment at cross tube ends and keel tube ends is permitted.

3.10. Prohibited

Additional aerofoils or surfaces, aerodynamic controls, king post or cross tube fairings, capsule or partial capsule fairing of the pilot.

3.11. Permitted.

Small landing wheels, sail windows, seat or prone harness, Variometer, airspeed indicator, altimeter.