FAI Sporting Code

Fédération Aéronautique Internationale

Section 10 – Microlights and Paramotors

Annex 1

CONFORMATION REQUIREMENTS FOR MICROLIGHTS

To Take Effect on 01 January 2020

Section 10 and General Section combined make up the complete Sporting Code for Microlights and Paramotors

Maison du Sport International
Av. de Rhodanie 54
CH-1007 Lausanne
(Switzerland)
Tél. +41 (0)21 345 10 70
Fax +41 (0)21 345 10 77
E-mail: sec@fai.org
Web: www.fai.org

FEDERATION AERONAUTIQUE INTERNATIONALE
MSI - Avenue de Rhodanie 54 – CH-1007 Lausanne – Switzerland

Annex 1 to SECTION 10

CONFORMATION REQUIREMENTS for MICROLIGHTS

1 AIRCRAFT MINIMUM SPEED

1.1 Aircraft which were foot-launched on a flight, and all Paramotors, are deemed to automatically meet the minimum speed requirement. All other aircraft shall be demonstrated to comply with the minimum speed definition (S10 1.3.1) by one of the following methods:

1.2 The national airworthiness system of the nation in which the aircraft is registered requires the aircraft to have been demonstrated to have a minimum level speed, corrected to standard conditions, at MTOW, equal to or less than that required in S10 1.3.1

1.3 The manufacturer of the aircraft provides a Declaration of Minimum Flight Speed stating the aircraft has a minimum level speed, corrected to standard conditions, at MTOW, equal to or less than that required in S10 1.3.1

1.4 The aircraft is shown to have a minimum level speed at MTOW, equal to or less than that required in S10 1.3.1 by a flight demonstration over a 500 m course.

1.5 The aircraft must be flown level at a safe height in opposite directions. The speed will be measured during each run by the use of a FR and the average of the two speeds shall be calculated. The component of the wind perpendicular to the course must not exceed 10 km/h. The measured speed will be corrected for air density (15°C, 1013.2mb, AMSL).

Note: Pilots wishing to attempt records or compete in championships will need one of these proofs.

2 CORRECTION TO STANDARD CONDITIONS

2.1 Correction of speed to standard conditions is calculated as follows:

$$\text{Speed in Km/h normalized to ISA conditions} = 3.6 \times \frac{D_0}{\left(\frac{T_1}{0.5331359 \sqrt{\frac{P_1}{t_1 + 273}}} \right)}$$

Where

D_0 = Leg length in metres.

T1 = Actual leg time in seconds.

P1 = Ambient pressure at test altitude in mb.

t1 = Ambient temperature at test altitude in degrees Celsius.

3 PARAGLIDER INTEGRITY REQUIREMENT

3.1 A paraglider flown in the competition has to conform to the original design by the manufacturer.

3.2 Any self-made modification to the canopy, lines, and riser can result in a significant change of paraglider performance and safety, and as such are considered dangerous and prohibited.

3.3 Pilot/crew flying on a self-modified paraglider is a subject for disqualification.

3.4 The change of any of the following paraglider parameters is considered as a prohibited modification:
- canopy shape, and dimension
- lines configuration, and dimension
- riser (including riser accessories) configuration, and dimension

3.5 A standard dimension and configuration reference is considered any printed or electronic material published by the manufacturer in the following places:
- manual
- service instruction
- web service
- etc.

3.6 The paraglider used shall be available to all pilots on the open market.

MICROLIGHT PERFORMANCE DECLARATION

NATIONALITY OF MANUFACTURER: .....

NAME OF MANUFACTURER: .....

ADDRESS OF MANUFACTURER: .....

.....

.....

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MICROLIGHT OR PARAMOTOR TYPE: .....

MODEL OR SERIES Nº: .....

MANUFACTURER'S DECLARATION OF MINIMUM FLIGHT-SPEED CHARACTERISTICS OF THE MICROLIGHT

The above type of aircraft, of our design and manufacture, has been flight tested and has demonstrated the following minimum flight-speed characteristics:

Minimum Flying Speed:.....Km/h

MTOW: .....Kg

Air temperature ..... °C

Ambient pressure .....Mb

Altitude: ..... m

Signed: .....

Name (in print): .....

Position in above-named manufacturing Organisation: .....

Date:.....

Checked and accepted
on behalf of CIMA by: .....

Name (in print): .....

Date:.....