

## **SECTION 4.1 CAO 95.10 AEROPLANE – OWN DESIGNS**

### **4.1.1 INTRODUCTION**

CAO 95.10 permits the operation of a privately built single place low momentum recreational aeroplane designed, built, and owned by 1 to 4 persons. The aircraft must meet the criteria specified within CAO 95.10. All sections of TECH FORM 025 application for registration and the aircraft data sheet TECH FORM 085 must be completed before the aircraft will be accepted for registration. RAAus must be satisfied that the aircraft complies with the weight and wing loading requirements of the CAO.

### **4.1.2 DESIGN AND CONSTRUCTION**

RAAus sets no design criteria. Builders are free to design as they wish and build using any materials they wish.

### **4.1.3 SAFETY EQUIPMENT**

A seat belt set of commercially available automotive, or aviation shoulder harness type shall be fitted that has a minimum of three points of attachment that complies with the requirements of ASTM F2245-20 Standard Specification for Design and Performance of Light Sport Airplane.

### **4.1.4 EMPTY WEIGHT**

The empty weight of each individual aircraft must be determined in accordance with Section 10 of this manual.

### **4.1.5 MAXIMUM TAKE OFF WEIGHT (MTOW)**

Is the sum of the empty weight, actual pilot weight, fuel capacity in Kg and payload allowance that must not exceed MTOW of 300kg, and result in a calculated wing loading of less than 30kg per sqm.

### **4.1.6 FUEL CAPACITY**

Maximum fuel that can be carried at the commencement of a flight will be determined by the size of the fuel tank and the MTOW less the empty weight, the provision for pilot weight, and any payload allowance. If the fuel tank capacity nominated in accordance with section 5 above is less than the physical fuel tank capacity, the volume and level of the nominated fuel capacity must be permanently marked on the fuel tank and on any visible means of determining the quantity of fuel in the tank. In all cases at the commencement of a flight the usable fuel required for a flight must be the sum of taxi fuel, trip fuel, destination alternate fuel and fixed reserve (e.g. VFR small aeroplane, 30 minutes).

### **4.1.7 WEIGHT CERTIFICATION**

On application for registration, a person permitted under Section 10 of this manual must complete and sign the weight verification TECH FORM 083.

### **4.1.8 IMAGES**

Images showing the left, and right-hand side fuselage registration markings must be submitted with each registration application. Refer to section 5.1 for registration marking size and location.

### **4.1.9 PLACARDS**

It is a requirement that the warning placard as described in Section 9.1 para 1.3 be affixed to the aircraft in such a way that it is clearly visible and legible to any person occupying a cockpit seat.