

# **SAM 35 Clubman Class Profile Weatherman**

10<sup>th</sup> April 2019 Rev 11

## **RULES**

### **1. Model**

To be made with a profile fuselage having nominal thickness of 1/2" to the side profile as shown on the standard size Weatherman plan. No cowling or fairing of the engine top half or tank is allowed.

### **2. Wing**

To be made from a sheet of 3/8" minimum thickness balsa to the standard plan shape with no dihedral, with a hardwood or spruce spar which may extend to full span if desired to take the bell-crank. The aerofoil section may be shaped to that preferred by the modeller while retaining a minimum root thickness of 3/8". A tip weight of 1/4 oz. shall be used.

### **3. Tail**

To be made to the plan shape with a minimum root thickness of 3/16".

### **4. Engine**

The engine to be used is the ASP S15 Club Combat fitted with the standard silencer as supplied by Just Engines. Tank pressurisation by the exhaust may be used. No modifications or enlarging of the Venturi and silencer bores are allowed. No modification is allowed to the standard engine other than fitting Cylinder Head shims.

From 2018 onwards, the use of engines specified in the BMFA rules for Vintage Class A Team Race and the SAM 35 rules for Phantom Speed will also be allowed. Specifically excluded are the Rothwell R250 and Techno (Profi) K12 Oliver Tiger clones on cost and performance considerations.

### **5. Spinner**

A 45mm spinner shall be fitted.

### **6. Propellers**

Only commercial reinforced nylon propellers shall be used. Propellers designed for electric use are prohibited.

### **7. Fuel**

Only Formula Irvine Contest 10 glow fuel can be used for glowplug engines and this will be supplied by the organisers at each event. Any formula diesel fuel may be used.

## **8. Lines, Pull Test and Handle**

Either 0.3mm minimum diameter single carbon music wire or multi strand (Laystrate or Staystrate) wire may be used. Braided stainless steel is only permitted with a minimum diameter of 0.38mm and soldering of the ends is not allowed with stainless (use epoxy with binding). Line ends must be made in accordance with BMFA recommendations. Lines shall be a minimum of 52'6" from the centre of the control handle to the centre of the engine crankshaft. A pull test of 25 lbs will be applied to the model, control lines and handle before each competition series of flights. Handles must be equipped with a safety strap, which must be fastened around the wrist before any flight.

## **9. Timed distance**

This will be 1/2 mile standing start, i.e. 8 laps with 52' 6" lines. The control handle must be held in line with the centre of the pilots body after the first lap without any degree of leading or whipping the model. Recommended position is that the handle be held to the pilots chest or under chin.

## **10. Undercarriage**

To be a single 10 gauge (3.2mm) leg fitted with a commercial balloon style wheel of 2" minimum diameter.

**11.** A model built to the above specification will be available for potential competitors to try at events providing they have full BMFA insurance.

**12.** Competitors who have previously won the Weatherman League are not permitted to enter competitions in this Class.

**13.** Two hardwood dowels shall be pinned through the wing/fuselage joint as shown on the drawing.

**14.** For the purpose of compiling results, entrants will be divided into novice and expert.