

## Sedgemoor Model Boat Club

### **Club Mini Hydro Fast Electric Class**

(updated April 2024)

1. This class is for Mini Hydroplane boats with an emphasis on homemade builds and designs with a suggested maximum spend of no more than £100.00.  
All boats must have a safety loop and a number plate to enter a race.

#### **Hull design & build;**

2. "3-point rigger hydro" boats only. This is defined as follows;
3. The boat must consist of 3 main sections, a center tub and two sponsons one on either side.
4. The center tub must contain the motor and prop shaft.
5. There must be a single sponson on each side of the central tub, which must be a minimum distance of 40mm over its entire length from the central tub. A straight line between the lowest point of the two sponsons must clear the bottom surface of the tub by a minimum of 5mm.
6. The sponsons must be fixed to the tub using tubes or rods which have a maximum diameter of 15mm.
7. The tub and sponsons must not be formed by any moulding process, be machine made, or commercially manufactured. Only "homemade" builds of original designs or from plans are allowed.
8. The models overall length must not exceed 500mm including any sponsors, trim tabs or other parts which could be considered as "planing surfaces" in contact with the water. Excluded from this measurement is any hardware such as the rudder, and/or support bracket, the prop shaft or turn fins.
9. **Motor;**  
Open to any size brushed or brushless motor.
10. **Batteries;**  
2S1P or 2S2P LiPo, maximum capacity 2200mAh or  
3S1P or 3S2P LiPo, maximum capacity 1500mAh.
11. **Drive system & control**  
The shaft must be direct drive (no gearboxes) using a surface drive propeller only.  
The boat must be controlled by two channel for throttle and rudder only, no additional control systems, units or gyros are allowed.

**12. Safety loop;**

The boat must be fitted with a “safety loop” colour red outside the hull, which when pulled will disconnect the battery supply to the motor. The loop must be fitted outside the hull in a position which is easily accessible to disconnect and must have a diameter of at least 20mm.

**13. Race Number;**

Boats must carry an upright number plate. The number figure must be black with the lines at least 8mm in width on a white background at least 75mm high x 60mm wide. The number allocation will be the final placing the entrant achieved in the previous Winter Series. Any new entrants will be allocated a number on a first-come, first-served basis or may be given a lower number if one becomes available.

**14. Race Course & time**

Race duration will be 5 minutes to include a 10 second “Mill Start” (see below) in a clockwise direction around an oval course. The exact size and position of the buoys will be decided by the meeting OOD.

Whenever possible there will be a course consisting of 4 marker buoys set out in a large rectangle shape. There will be center marker used for the start/finish line and for lap counting.

**The Mill Start;**

All boats will have a 10 second “mill time” to circle around the bottom right hand buoy in a clock-wise direction. They must have launched and cleared the start/finish line area within the first 5 seconds; anyone that fails to do this must join in behind the last placed boat as the race starts. No boat may stop dead in the water or cross the start line before the start is called, any boats that do will have 1 lap deducted from their race score. The lap counting starts only after the mill start is completed.