This article is to give prospective builders of any John Spencer designed 1 m an idea on how to construct the hull (although the accompanying diagrams refer to the Merry Hell/Snow White designs, see November 1990 newsletter). It is based on a letter John Spencer wrote during June 1990.
Many thanks to John for allowing me to produce this article. I have found this way of building the hull, quick and true. If neccesary in future newsletters we can go into detail of any area. Please write with comments, suggestions etc.

Johns first hulls were built from 1.2 mm birch ply, but he has found since that 1.8 Okoume is lighter, stronger and easier to work. (NOTE:Okoume' is also known as Gaboon).

Everything is attached with $\mathrm{Hi}-$ Tech $9 \varnothing 00$ resin bog. This is the resin mixed with lightweight filler to thick paste consistency. Tests showed this stronger than using timber fillets, chines, etc.

Packaging tape has proved superior to masking tape for holding the panels together while gluing.

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Make Building Jig with no Station-1, and Station-2 partly removable. i.e.


Rest of Station-3 to Station-8 as diagram. This allows for 45 mm wide side decks. Stations 9 \& 10 are normal (i.e. full shadows). The transom is fixed to Station-10.

Lay the 45 mm SideDecks from Stem to Station- 8 first, after fitting $4 \mathrm{~mm} x$ 4 mm gunwales to them over the building board.

Then fit deck section full width between Station-5 \& Station-b and beams as required (in my case immediately aft of Station-8 and a forestay/jib boom swivel support).

Central deck is fitted;


Then fit keel box in slots for it in Station-5 \& Station-6 down over central deck and a cross girder to brace and support chainplates.


My jig has a stem support forward of the stem made to fit 1.2 mm plywood and clamp in place and a packer under forward deck to align the foredeck where the two halves (forward ends of sidedecks) meet.


The stem fits in over deck panels holding them down. Keel box holds down centre section and masking tape will hold down aft end at Station-8. I extend sidedecks 8 mm or 50 past Station-8 to fit beam behind. Later this is bevelled to take sloping decks from Station-8 to aft cockpit for steering.

Topsides go on next and when ready chines faired off with a sanding board and bottom taped down over at each station gluing only to transom and stem. I cut bottom a mm wide each side and a touch of bog between each tape secures it until removed from $j$ ig and fully bog covered inside. Then fit further deck and aft cockpit as required and use Bantock type hatchcovers for rest - from some clear polyester film.


The $C$ of $G$ of the lead should be $55 \%$ from stem and floatation is right with RC gear aft of Station-6. My bulbs are NACA 1:6 section, max dia. J0\% from farward and and 255mm 火42. 5mm. Eleaned up Eame out around 2. 30 kg and the fin 200 grams approx. My fin has central core of 4 mm aluminium. There are lightning holes in the upper end (above fin) of $1 / 2^{\prime \prime}$ dia. I cut cedar 10 mm and 5 lot in saw bench from front. Leading edge is filled with 4 mm Sapele. My rudders are $1: 6$ section and fails also have $30 \%$ section.

The aft cockpit I simply lay in from sheer. The rudder is aligned at 900 to bottom of hull.

My chainplates are $18 g$ or 20 g Ss wire (non-adjustable fore and aft) simply bogged in place.

## UPDATES

The following are some changes made in the latest boats built by John. The Sheerline is now cut away from just behind station-6 (16mm aft). This has been done to both the 'Merry Hell' \& 'Why Not?' designs. There is a new design rudder. The rudder is no longer at 90 to the bottom of the hull, is further aft on the boat and works better. The side decks are now 30 mm wide.


VooA. 1 meter
SEAM 0.285
$\begin{array}{ll}\text { RESPL } & 4.00 \mathrm{~kg} \text { with No } 3 \mathrm{RiG} \\ \text { Keel } & 2.50 \mathrm{~kg}\end{array}$
Kear 2.50 kg


