



The inner compression struts and bracing members are shown here in Figure 5 and in bottom drawing far left.



Fiberglassing adds to cost but waterproofs all seams permanently, as shown in Figure 6, left, and gives extra strength.

wicked between two layers of $\frac{1}{4}$ in. plywood. When dry, bevel lower edge as in Fig. 3 and fasten to transom with four #10 x 2 in. *fh* screws. Hold a scrap piece of 2 by 4 in. stock against the transom and motor board and mark to cut two bevel blocks (Fig. 3). Install blocks with glue and two #10 x 3 in. *fh* screws. Fasten previously cut coamings to stringers and motor board with #5 x $\frac{7}{8}$ *fh* screws as in Fig. 3. Now turn the hull over, make the keelson and fasten with glue and #7 x 1 in. *fh* screws spaced 5 in. apart. Use washers under screw heads and drive screws from inside of hull.

To make the hull watertight, cover all outside seams with 3 in. wide fiberglass tape and resin. First round all edges with a hand plane and sandpaper. Then dust all joints and apply one coat of fiber glass resin about 2 in. beyond the edges. Place the fiberglass tape over the seam, tacking one end to keep it in place, and apply more resin to saturate the tape. Smooth all wrinkles with the brush or your hand (Fig. 6), and allow resin to set. Follow with two coats of resin and, after resin has hardened, feather-edge tape with #80 wet or dry sandpaper. Be sure to place fiberglass over the gore and slit in the bottom. If lightening holes have been omitted in the stringers to make watertight side compartments, apply fiberglass tape to corners where stringers and cross piece join.

Regardless of the color combination you intend to paint your version of Minimax, give the outside of the hull and inside of the cockpit 2 coats of white primer paint. Sand each coat lightly after drying and follow with two coats of marine enamel.

Mount a steering wheel on the wheel board (Fig. 1), or use the board as a hand rail and steer the craft with the stick control.

STATEMENT OF USES

TYPE: A fast outboard-powered hydroplane for water sport use on protected waters.

LENGTH: 8 ft.

BEAM: 4 ft.

WEIGHT: 68 lbs.

CAPACITY: 2.

FEATURES: Convex bottom forward with high-lift after plane. Self-contained air chambers will support 900 lbs. Fiberglass tape on all seams make hull permanently watertight. One man can easily handle this boat on car-top carriers.

SPEED: 15 MPH with 3 *hp* outboard motor. Outboard motors up to 15 *hp* may be used for increased speed.

MATERIALS LIST—MINIMAX

No.	Size and Description	Use
PLYWOOD		
2	$\frac{1}{4}$ "x4x8' AC grade, exterior plywood	deck and bottom
1	$\frac{1}{4}$ "x15x32" AC grade, exterior plywood	motor board
LUMBER		
1	1x8"x10' spruce, hemlock or pine	sides and motor board core
1	1x8"x8' spruce, hemlock or pine	cross piece and transom
1	1x8"x8' spruce, hemlock or pine	transom pad
1	1x8"x8' spruce, hemlock or pine	steering supports
1	1x8"x8' spruce, hemlock or pine	rip saw for $1\frac{1}{8}$ " reinforcing strips
1	$1\frac{1}{4}$ x1 $\frac{3}{4}$ "x6' spruce, hemlock or pine	keelson
FASTENINGS		
1 lb or pint	Weldwood glue or Elmer's Waterproof	
3 gr	#5x $\frac{7}{8}$ " <i>fh</i> wood screws	
4 doz	#6x1 $\frac{1}{4}$ " <i>fh</i> wood screws	
2 doz	#7x1" <i>fh</i> wood screws	
3 doz	#8x1 $\frac{1}{2}$ " <i>fh</i> wood screws	
2 doz	#8x1 $\frac{3}{4}$ " <i>fh</i> wood screws	
4	#10x3" <i>fh</i> wood screws	
1 lb	1" galv. Stronghold nails (available from Herter's Inc., Waseca, Minn.)	
PAINT AND FIBERGLASS		
15 yd	3" wide fiberglass tape	
1 pt	fiberglass resin with hardener (available from The Castolite Co., Woodstock, Illinois)	
1 pt	white primer paint	
1 pt	white Boat Life enamel	
1 pt	red, green, blue as desired Boat Life enamel	