PADDLE, KAYAK-STYLE Easy to Make, Inexpensive and Adaptable.

Nov. 2010

THE DESIGN GOAL FOR THIS PADDLE WAS TO DEVELOP A LOW COST, EASY TO MAKE, ADAPTABLE PADDLE FOR A KAYAK, CANOE OR ANY OTHER SMALL BOAT THAT REQUIRES MANUAL PROPULSION. THE END RESULT IS A DOUBLE-PADDLE THAT COSTS ABOUT \$15 TO MAKE, AND CAN BE LENGTHENED, OR SHORTENED, TO SUITE THE APPLICATION. BECAUSE IT IS BUILT IN TWO SECTIONS, IT CAN EVEN BE USED AS A SINGLE PADDLE FOR CANOES OR FOR JUST LEAVING THE DOCK, OR POSITIONING THE BOAT FOR LAUNCH. THE DESIGN IS NOT INTENDED FOR ROUGH WATER USE, SUCH AS RIVER RAFTING, BUT IT CAN BE RUGGEDIZED BY ADDING A DOWEL TO THE ENTIRE INSIDE OF THE HANDLES, AND BY INCREASING THE THICKNESS OF THE PADDLES.





The following instructions are simple, but will provide sufficient information to produce a successful build.

You can make changes to any of the dimensions to suite your particular application. Keep in mind that material strength and waterproofing are the key elements to long term use. Repair any damage that may occur immediately, as water penetration into the plywood will dramatically weaken the paddles over time.

The use of marine or water resistant plywood is strongly recommended, as is TiteBond III Waterproof Glue.

Good Luck with your project ! A Ken Simpson Design

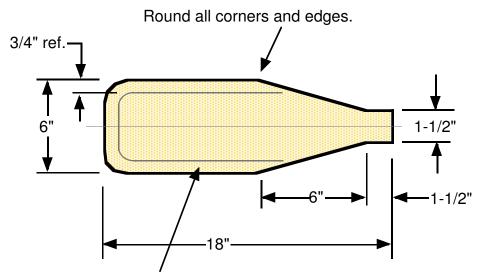
This is an experimental design drawn up by an untrained amateur. The Designer accpets no liability for any loss or damage sustained during construction or use. Builders may use these plans to construct small numbers of boats freely for their own use. Commercial manufacturers must ask the designer to negotiate permission.

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KAYAK-STYLE HOMEMADE PADDLE



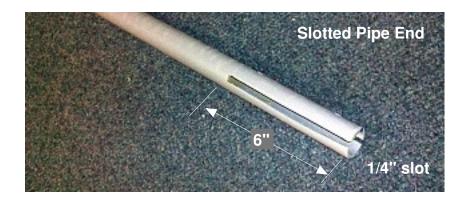
PADDLE Dimensions (make 2)



Apply 1-1/2" wide glass cloth tape to outside edges per sketch above. Use the T&G method of application. Download free from www.PortableBoatPlans.com

LIST OF MATERIALS:

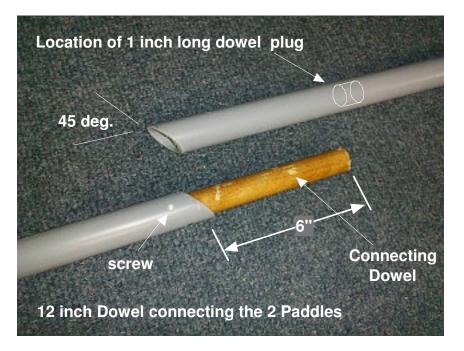
- 1 10' Length of PVC Electrical Pipe, 1-1/4" OD, 1" ID, Underground Rated (\$3)
- 1 Plywood, 1/4" x 1' x 2' Scrap (\$3)
- 1 Lumber, 1/4" x 3/4" x 8' Long (\$2)
- 1 Dowel, 1" Dia. x 2' Long (\$4)
- 1/4 Yard 3.25 oz. Glass Cloth Scrap (\$6)



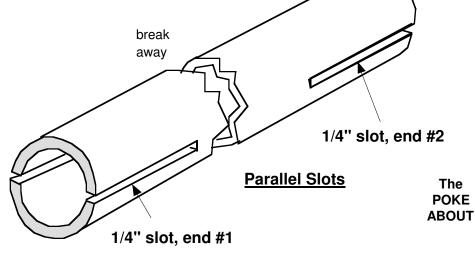


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KAYAK-STYLE HOMEMADE PADDLE



Depending on your specific application, the paddle slots can be cut at a 15 degree angle to each other, thereby reducing any wrist twisting motion.



The paddle handle is made from the PVC Pipe. Cut a 6 foot length (7' depending on your application), and then cut a 1/4" slot, 6" long, on one end. I used a jigsaw with a long balde. Next, cut a similar slot on the other end, parallel to the first slot on end #1. See sketch lower left & photo previous page.

To allow the paddle to be more easily stored, cut the handle 33 inches from one end (for the 6'), at a 45 degree angle. This will create 2 lengths, one 39 inches long, the other 33 inches long. The different lengths will end up the same when the connecting dowel is glued in place. The purpose for the 45 degree angle cut is to properly align both paddles during use. Now cut a 1 foot length of dowel and glue it 6 inches into the angled end of the 33 inch long handle. Small screws can be used to hold it in place. See photo at left.

It would also be best if the paddles could float if misplaced (dropped overboard). The plastic tubing is heavier than water, but if filled with air they will float. So, cut 1 inch long dowel plugs (3) and glue them in place in the tubes, just aft of the paddles, and aft of the center connecting dowel opening. Use plenty of glue to hold in place. See photo at upper left.

