

# Tikino 16 beach catamaran

## Bill of Materials

This bill of materials includes all the stuffs required to build the hulls, beams and other parts , and the rig ; it does not includes standing and running rigging materials, blocks cleats , metal hardware and sail handling gears

### marine grade plywood

- 4 mm thickness: 4 sheets sized 2500x1500 , or 5 sheets sized 2500x1250 (hull panels)
- 8 mm thickness : 1 sheet sized 2500x1500 (bulkheads and other parts)

### solid wood elements

- 4 boards 20x120 mm section , 2500 length each (beams)
- 1 board 230x80 mm section , 2500 length (beams intermediate blocks)
- 1 batten 20x20 mm section , 2000 mm length (hull blocks on beams)
- 1 batten 30x50 mm section, 200 mm long (dolphin strike)
- 1 batten 60x35 mm section 600 mm long (beam fastener)
- 1 batten , circular section (not mandatory) diameter 50 mm , 2000 mm long (steering central bar , can be done also with an alloy pipe)
- 1 batten section 40x40 , long 4500 mm, (rudder tillers and beam aligning parts on hulls)
- 1 batten circular section diameter around 30 mm , 1300 mm long (rudder stick, you can also go for an alloy one)
- 2 boards 100 x 22 mm section , length 5700 mm each (total length can be achieved with a bevel joint, in this case purchase four 3000 mm boards) , mast
- 2 boards 36x20 mm section , length 5700 mm each (total length can be achieved with a bevel joint, in this case purchase four 3000 mm boards), mast
- 2 boards 80x20 mm section , 2250 length each (boom)
- 2 boards 20x20 mm section , 2250 length each (boom)
- 2 boards 25x50 mm section , each 1650 mm length (gaff boom)
- 1 cheap wood/plywood strong board about 2500 x 250 sized (template to glue the beams in curved position)

### resin and others:

- epoxy resin suited for boat building : total 12 kg (total weight of A+B components, use slow hardener)
- 1 average box of tixotropic silica and 1 of cellulose fibers (or a box of cabosil or similar, check epoxy producers advice on how to make structural glue with their epoxy)
- 2-3 liters of polyurethane paint , mono or bicomponent
- electrician zip ties 2.5-3mm : about 500