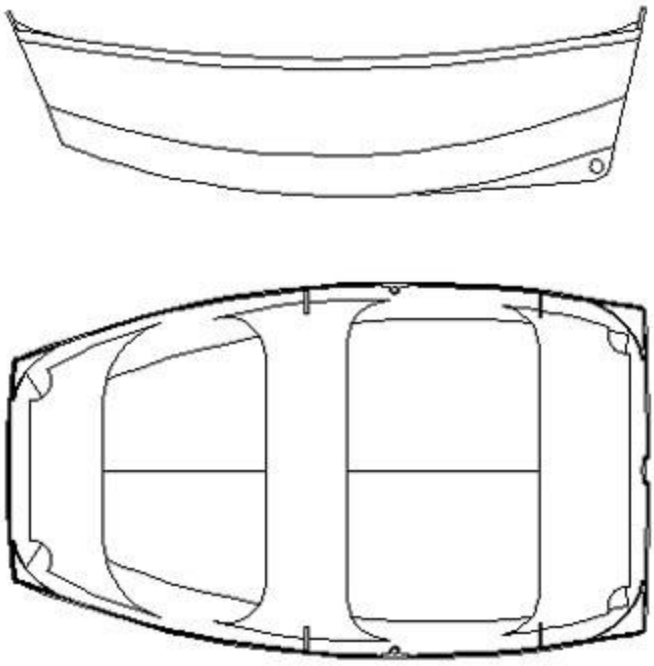

A successor to the D4. The best use of two sheets of 1/4" plywood for the hull gave us a length of almost 8' and a beam of 4' 8". She has more rocker in the bottom than the D4, is more stable thanks to her wider beam and uses a simple Optimist type (sprit) rig. The 6' or 6-1/2' oars store inboard while using the sails or the small outboard: max. 3 HP.

Builder threads on our forum:

Craig Farnsworth
gstanfield
MadRus
tedwright9
xlsport
Jimboat57

Specifications:		
LOA:	7' 8 "	2,35 m
Max. Beam:	4' 8 "	1,40 m
Max. HP:	2 HP	outboard
Designed weight:	60 lbs.	27 kg
Sail area:	35 sq.ft.	3 m2
Material:	Stitch & Glue	

Building method:
This boat is built from flat plywood panels assembled with epoxy-fiberglass tape. The construction method is called "stitch and glue". For a detailed description of the stitch and glue boat building method, see our "How To" section where you will find a complete illustrated tutorial as well as information about epoxy, fiberglass and plywood. Most of the pictures in that tutorial show the PK78.
The spars (mast and sprit) are made from 1x3 boards (12x30 mm) epoxy glued together. No shrouds required: very simple.

Required Skills:
The PK78 dinghy is very easy and fast to build, there are no scarfs. All parts are cut from standard sheets of plywood.

No woodworking skills or special tools are required.

Options:
There are two sail options for the PK78 dinghy: marconi (triangular) or sprit sail, as in the drawing on the main page. The sprit sail is our preferred one: low center of effort = more stability and the spars stow in the hull. Other options: seats shape, buoyancy foam in the seats etc.

Bill Of Materials:
(Excerpts from our BOM)
The BOM list materials based on our standard layout and includes a 15% waste factor for resin and fiberglass. For plywood, we use standard sheets 4' x 8' (122 x 244 cm). Please read the building notes and see the plans for detailed specifications.
This boat can be built from inexpensive exterior plywood since it is completely coated with epoxy resin.

Plywood 4x8' (122x244cm)		
1/4" (6mm)	2	
3/8" (9mm)	1.5	
Fiberglass (totals)		
Woven tape	50 yards	45 m
Resin		
Epoxy, total	1.5 gallons	6 liters

Labor:
The average construction time for the hull is 30 hours.

More:
Visit our message board, help pages, tutorial pages and read our FAQ: most questions are answered there.

Plans Packing List:

- 9 Detailed drawings, large scale with all dimensions required to cut the sides, bottom and the bulkheads from flat plywood sheets: no lofting, no templates required.
- Drawing List:
- B131_1 Concept
- D131_2 Plan Views and Sail Plans with all dimensions for spars and sails, marconi and sprit sail.
- D131_3 Dimensions and Nesting
- D131_4 Construction
- D131_5 Details
- E131_6 Full Size Patterns - Sides & Bottom
- E131_7 Full Size Patterns -Frames
- D131_8 Full Size Patterns - Seat Tops
- E131_9 Full Size Patterns - Rudder and Daggerboard
- Building notes including a detailed description of the assembly sequence and building tips
- Bill Of Materials
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