

Sea Kayak Bill of Materials

DO NOT PURCHASE ANY MATERIAL UNTIL YOU READ THIS SECTION.

LUMBER: Pine, mahogany, spruce, or most any type of clear wood can be used. Lumber is 1" lumberyard stock, usually finished to 3/4" net thickness.

PLYWOOD: All plywood must be intended for marine or exterior use. Interior grades are NOT acceptable. Marine plywood has higher grade inner ply cores, while the exterior grade cores may be of inferior material with inner voids not apparent to the eye. In most cases, the glues used in both marine and exterior panels are the same. When SEA KAYAK TWO is built with 1/4" plywood, an exterior grade is satisfactory, however, a marine grade or solid core is preferable for 4 mm planking. Douglas-fir plywood or any suitable marine grade veneer plywood may be used. The grade of the exterior veneer of plywood panels is identified by the letters A, B, and C with A being best, etc. The best face of all panels should be the one exposed. Check the PLYWOOD LAYOUT on the Full Size Patterns for method of utilizing the listed plywood to obtain the various parts.

GLUE: All permanent joints should be glued with epoxy adhesives intended for wooden boat use. These may be epoxy resin with additives or epoxy glue.

MATERIAL ABBREVIATIONS: D.F. = Douglas-Fir; PW = plywood; Ext. = exterior; Mar. = marine; Mahog. = mahogany; SP - spruce (Sitka)

ITEM	MATERIAL	NO. PCS	SIZE
LUMBER:			
Breasthooks #11 & #12	Sp. or Mahog.	1	1"x2 1/2"x1'9"
PLYWOOD: See PLYWOOD LAYOUT on Pattern Sheet			
PANEL "A"	Ext. DF AB	1	1/4"x4'x8'
	OR Mar. AA	1	4mm x4'x8'
PANEL "B"	Ext. DF AB	2	1/4"x4'x8'
	OR Mar. AA	2	4mm x4'x8'
STITCHING WIRE: Copper wire 12 or 14 ga. - 50 lineal feet			
EPOXY RESIN: For gluing, laminate application, epoxy encapsulation, and resin putty. INTERIOR = 1 1/2 gal. EXTERIOR (Includes fiberglassing) = 1 gal.*			

MICROSPHERES: (or equal) - 1 lbs.	
SILICA: 1 lbs.	
FIBERGLASS TAPE: For interior junctions per the LAMINATE SCHEDULE.	
3" width = 38 yds. **	4" width = 18 yds. **
***FIBERGLASS TAPE & CLOTH: For exterior seams and sheathing .	
TAPE: 4" width = 27 yds.	CLOTH: 60" width = 6yds.
Split cloth in two 30" widths. Use to cover from keel to deck centerline on each half of boat.	
IF YOU DO NOT FIBERGLASS COVER THE EXTERIOR:	
<ul style="list-style-type: none"> • *Decrease to 1 qt. • **Total fiberglass tape interior & exterior. <ul style="list-style-type: none"> ◦ 3" width = 57 yds. ◦ 4" width = 37 yds. • ***Delete this entire section 	
FASTENERS: Flat head wood screws bronze or hot dipped galvanized.	3/4" #8 = 12 required
Pan head drive screws (or equal) for temporary fasteners.	3/4" #8 = 24