



8.4 metre Catamaran

TEAM SCARAB

BASIC MATERIAL LIST

Quantities are for the basic structure

SIREN 8.4 OPEN WING CATAMARAN

Basic Materials List to build hulls & beams (may be subject to change)

For the hulls & beams.

Plywood (Gaboon) 9mm		56 sheets
For solid trampoline 16mm Durakore panel		6 sheets
Fibreglass	Unidirectional 450gsm	85 metres
	Unidirectional 900gsm	30 metres
	Double Bias Tape 600gsm	100 metres (150mm wide)
	Triaxial 580gsm	85 metres
	Double Bias 450gsm	12 metres
For solid trampoline 200gsm biaxial		25 metres
Oregon (or Hoop Pine) timber	150x50	2.0 lineal metres
	75x75	2.5 lineal metres
	200x25	8.0 lineal metres
	75x20	8.0 lineal metres
Cedar timber	20x20	30 lineal metres

All timber sizes are nominal, ie finished sizes will be slightly different.

Epoxy resin	240 litres (may be more	depending on technique)
Filler lightweight	5 kg	
Filler filleting compound	25 kg (nominal)	
Paint primer	16 litres	
Paint top coat	16 litres	

Fabricated aluminium & stainless steel	to detail
Aluminium tubing 6061 Alloy T6 Temper	
200mm OD x 6mm wall thickness	10.5 metres
82mm OD x 5mm wall thickness	3.5 metres
Forebeam bridle (seagull striker)	to detail
Outboard Motor bracket	to detail
Bolts, metal thread screws, nuts, washers etc as required	

A quantity of scrap copper wire for temporarily joining
 repair shops) plywood panels. (Obtainable from electric motor

Consumables: gloves, mixing containers, hand cleaner
 sanding discs brushes, rollers etc. Allow \$500-\$700

6mm Acrylic or polycarbonate for windows 2.7 x 0.75 metres

For the building frame and moulds

16mm plywood (second hand or form ply)	6 sheets
100 x 50 (nominal) pine or similar	65 lineal metres

50 x 20 (nominal) meranti or similar 18 lineal metres (may not be reqd)
Gyprock screws, 6mm threaded rod with nuts & washers.

Tools required:

Drill
Jig saw
Plane
Hammer
Clamps (lots)
Chisels, rasps, files, screwdriver
Pliers (for twitching up copper wire)
Epoxy filleting tools (may be home made)
Circular saw with 'SCAFFER' attachment
Random orbital sander (must be heavy duty)
Grinder with sanding disc or disc sander
Heavy duty hand stapler

Note: This is for the basic structure only. Allowance must be made for deck hardware, furnishings, rigging etc.
For the trampolines, obtain prices from upholsterers or sail makers, make sure to specify UV resistant fabric.