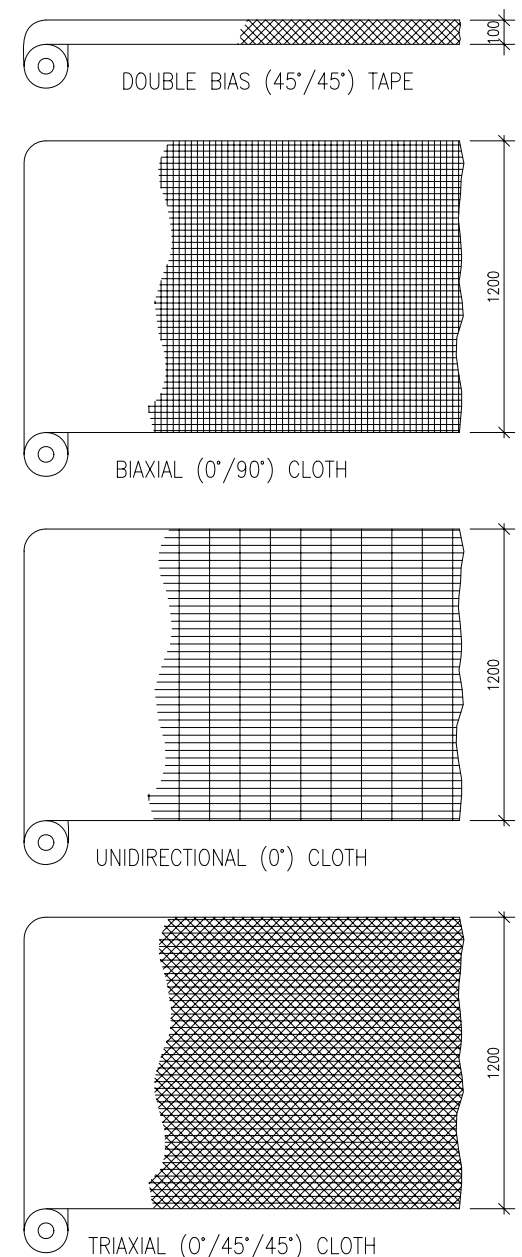


MAIN HULL COMPONENTS	
COMPONENT	MATERIAL
HULL PANELS *	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
BULKHEADS	9mm PLY (UNCOVERED)
PARTIAL BULKHEADS	9mm PLY (UNCOVERED)
SHELF **	9mm PLY (UNCOVERED)
SETTEE RISERS	9mm PLY (UNCOVERED)
CENTREBOARD CASE	9mm PLY (UNCOVERED)
COCKPIT SEAT RISERS	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
COCKPIT SEATS	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
CABIN SIDES	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
DECK	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
HATCH	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
* BOTTOM PANEL TO HAVE 1 EXTRA LAYER OF 300gsm DOUBLE BIAS CLOTH ON THE OUTSIDE	
** SHELF COMPRISES BUNK/SETTEE TOPS AND COCKPIT FLOOR	
PANELS TO BE TAPED INSIDE & OUTSIDE WITH 400gsm DOUBLE BIAS (45°/45°) TAPE x 100mm WIDE. ALL BULKHEADS, PARTIAL BULKHEADS & RISERS TO BE FILLETED & TAPED TO HULL PANELS BOTH SIDES WITH 400gsm DOUBLE BIAS TAPE x 100mm WIDE.	

FLOAT HULLS	
COMPONENT	MATERIAL
HULL PANELS *	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
BULKHEADS 2 & 5	9mm PLY (UNCOVERED)
DECK **	6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH
BULKHEADS 4A,4B & 8A & 8B	9mm PLY FILLETED & TAPED TO HULL PANELS BOTH SIDES WITH 2 LAYERS 400gsm DOUBLE BIAS (45°/45°) TAPE x 100mm WIDE
BEAM MOUNTING DIAPHRAGMS	
* BOTTOM PANEL TO HAVE 1 EXTRA LAYER OF 400gsm BIAxIAL ON THE OUTSIDE	
** DECK PANEL TO BE INITIALLY LAMINATED ON THE UNDERSIDE SURFACE WITH 300gsm DOUBLE BIAS CLOTH. PANEL THEN FITTED & GLUED TO SHEER ANGLES, BULKHEADS & STRINGER. TOP OF PANEL THEN LAMINATED WITH 300gsm DOUBLE BIAS CLOTH.	
<ol style="list-style-type: none"> REMOVE TEMPORARY FRAMES. CLEAN UP JOINTS REMOVING ALL RUNS & "DAGS". FILL JOINTS WITH FILLER & ROUND OFF. TAPE ALL HULL JOINTS INSIDE WITH 100mm WIDE 400gsm DOUBLE BIAS FIBREGLASS TAPE FIBREGLASS INSIDE OF STEM AS PER DETAIL FILLET & TAPE IN ALL BULKHEADS FILLET & TAPE IN BEAM MOUNTING DIAPHRAGMS BETWEEN BULKHEADS 4A 4B & 8A 8B GLUE FIBREGLASS ANGLES TO SHEER LINE, HOLDING WITH TEMPORARY SCREWS. GLUE & FILLET IN DECK STRINGERS. CUT EXCESS OFF SIDE & CHINE PANELS AT STERN & GLUE IN TRANSOM CUT DECK PANEL, CHECK LOCATION OF BEAM OPENINGS & CAREFULLY CUT. DRY FIT DECK AND MAKE ANY ADJUSTMENTS REQUIRED, GLUE DECK DOWN USING STRAPS TO HOLD WHILE GLUE SETS. RADIUS DECK EDGE & LAMINATE 400gsm CLOTH OVER DECK & LAP 50mm ONTO HULL SIDES. 	

MDF or Second grade plywood	16mm	12 SHEETS
Plywood	6mm Gaboon (Okume) or Pacific Maple	34 SHEETS (SHEET SIZE 2400x1220)
	9mm Gaboon (Okume) or Pacific Maple	4 SHEETS (SHEET SIZE 2400x1220)
	12mm Gaboon (Okume) or Pacific Maple	4 SHEETS (SHEET SIZE 2400x1220)
Fibreglass	300gsm BIAxIAL CLOTH (1200mm WIDE)	185 lin metres
	400gsm DOUBLE BIAS TAPE (100mm WIDE)	420 lin metres
	400gsm DOUBLE BIAS CLOTH (1200mm WIDE)	5 lin metres
	600gsm DOUBLE BIAS CLOTH (1200mm WIDE)	10 lin metres
	900gsm UNIDIRECTIONAL CLOTH (1200mm WIDE)	15 lin metres
	750gsm TRIAXIAL CLOTH (1200mm WIDE)	10 lin metres
Peel Ply		200 lin metres
Resin	Epoxy	200 litres
Filleting powder		20 kg
Sanding filler		5 kg
Lexan for windows	6mm thick tinted	2300 x 600
Paint – High build undercoat	Preferably 2 pot polyurethane	Approx 12–16 litres
Paint – Gloss top coat	Preferably 2 pot polyurethane	Approx 12 litres
Folding system	Laser cut aluminium 5083 Alloy, H321 Temper (Allow approx \$1300 AUD)	
Pivot pins	6061 Alloy T6 Temper (Allow approx \$100 AUD)	
Aluminium flat bar 25mm x 6mm	For backing plates	2 lin metres
Sikaflex sealant		2 cylinders
Various fabricated & standard fittings (eg Ronstan)		
Various nuts, bolts & screws		
Consumables	Gloves Paper towels Mixing jugs & cups Measuring pumps for epoxy Mixing sticks Solvent for cleaning – acetone for polyester or vinylester –white vinegar for epoxy	
	Brushes Sanding disks Sand paper Gyprok (dry wall) screws (for temporary assembly)	
TOOLS REQUIRED Jig Saw Drill & Drill bits Several hole saws 100mm Angle Grinder Rubber backed sanding disk for grinder Diamond cutting disc for angle grinder Random Orbital Sander (pref 150mm dia) Files & Rasp Ruler 8 metre measuring tape Square Filleting tools Spreader (for fairing compound) Several chisels Stanley knife (sometimes called a box cutter) Scissors Laminating tables Saw horses		
Best to have both mains power and cordless. For cutting thick fibreglass eg trimming beam flanges May be home made or modified putty knives or plasterer's tools. Plastic Gyprok filler spreaders work well Standard saw horses or the folding clamping cheapies. (The legs can be shortened if required)		

PHOTOCOPIER
SCALE UP A4 DRAWING BY 1.414 TO OBTAIN A3 SIZE



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Scarab 650 Sport

6.5m Folding Trimaran

PLYWOOD DETAILS & MATERIAL LIST

Team Scarab

MULTIHULL DESIGNS BY RAY KENDRICK

M/S 279 GUNALDA QLD, 4570. PHONE 07 41939162

DATE: JULY 07

SCALE: NOT TO SCALE

DRAWING NUMBER

S650-PLY