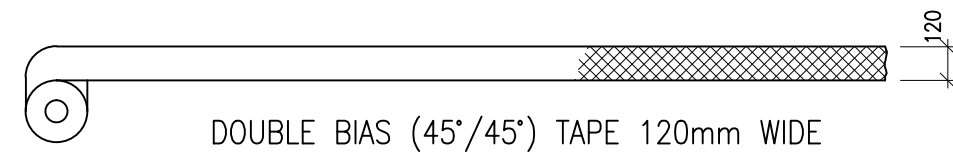


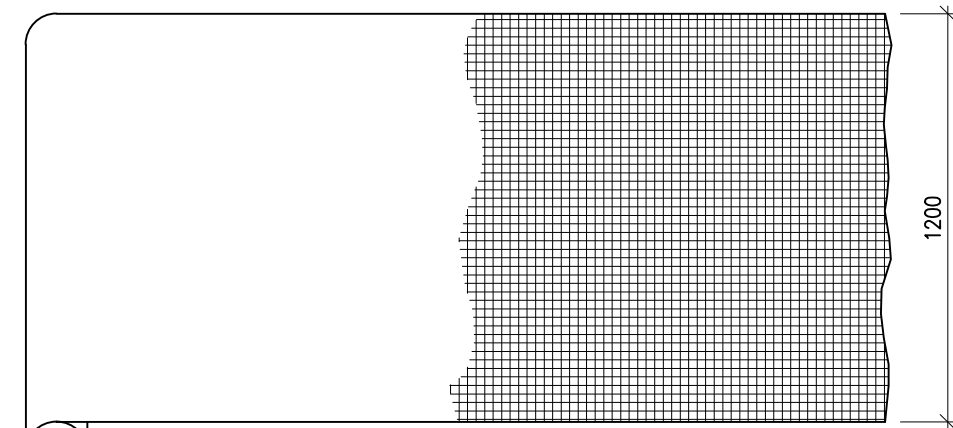
MDF or Second grade plywood	16mm	15 SHEETS
Foam	12mm 75kg/cu m (standard density)	221 SQUARE METRES
Fibreglass	600gsm BIAxIAL CLOTH (1200mm WIDE)	150 lin metres
	600gsm DOUBLE BIAS TAPE (120mm WIDE)	800 lin metres
	600gsm DOUBLE BIAS CLOTH (1200mm WIDE)	120 lin metres
	900gsm UNIDIRECTIONAL CLOTH (1200mm WIDE)	100 lin metres
	450gsm CHOPPED STRAND MAT	12 lin metres
Peel Ply		400 lin metres
Resin	Polyester, Vinylester or Epoxy	500 kg
Filleting powder	AEROSIL / CABOSIL	5 kg (approx)
Sanding filler	Q CELLS	5 kg (approx)
Lexan for windows	6mm thick tinted	1.5 SQUARE metres
Paint – High build undercoat	Preferably 2 pot polyurethane	Approx X litres
Paint – Gloss top coat	Preferably 2 pot polyurethane	Approx X litres
Folding system	Water cut aluminium 5083 Alloy, H321 Temper (Allow approx \$1300 AUD)	
Pivot pins	6061 Alloy T6 Temper (Allow approx \$100 AUD)	
Aluminium flat bar 50mm x 12mm	For backing plates	5 lin metres
Sikaflex sealant		10 cylinders (approx)
Various fabricated & standard fittings	(eg Ronstan)	
Various nuts, bolts & screws		
Consumables	Gloves Paper towels Mixing jugs & cups Measuring pumps for epoxy / measuring cups for polyester catalyst 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

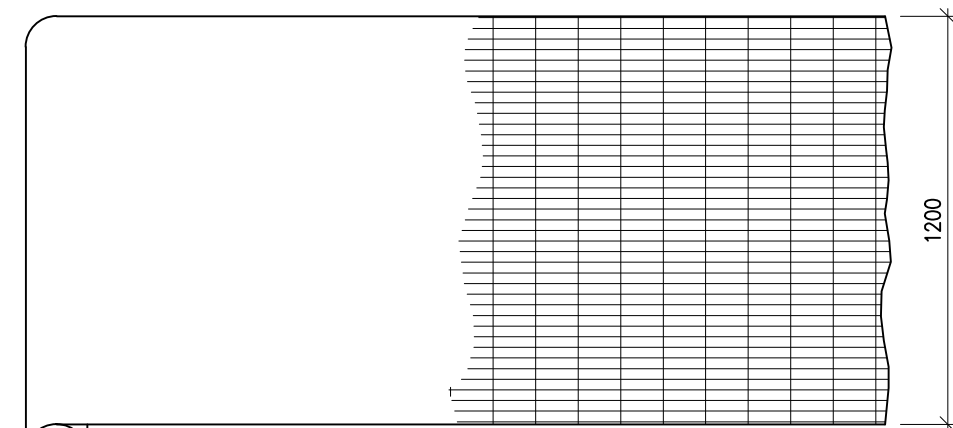
Jig Saw
Drill & Drill bits Best to have both mains power and cordless.
Several hole saws
100mm Angle Grinder
Rubber backed sanding disk for grinder
Random Orbital Sander (pref 150mm dia)
Files & Rasp
Ruler
10 metre measuring tape
Square
Filleting tools May be home made or modified putty knives or plasterer's tools.
Spreader (for fairing compound) Plastic Gyprok filler spreaders work well for epoxy / steel for polyester
Several chisels
Stanley knife (sometimes called a box cutter)
Scissors
Laminating tables 4 sheets 16mm plywood (second grade) covered with plastic. May be supported on sawhorses.
Saw horses Standard saw horses or the folding clamping cheapies. (The legs can be shortened if required)



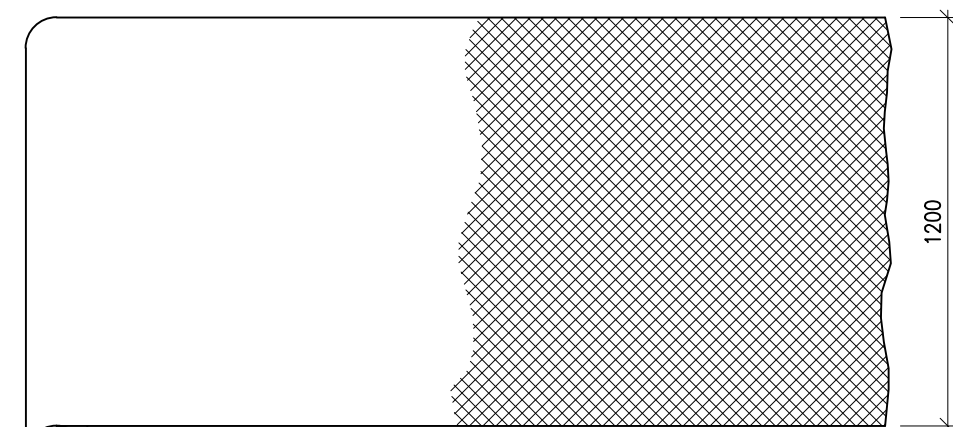
DOUBLE BIAS (45°/45°) TAPE 120mm WIDE



BIAxIAL (0°/90°) CLOTH



UNIDIRECTIONAL (0°) CLOTH



DOUBLE BIAS (45°/45°) CLOTH

PHOTOCOPIER

SCALE UP A4 DRAWING BY
1.414 TO OBTAIN A3 SIZE

Scarab 32
32 foot CRUISING TRIMARAN
MATERIAL LIST-FOAM SANDWICH

Team Scarab
MULTIHULL DESIGNS BY RAY KENDRICK
466 DEVERON ROAD GLENWOOD QLD 4570

© R. KENDRICK 2012

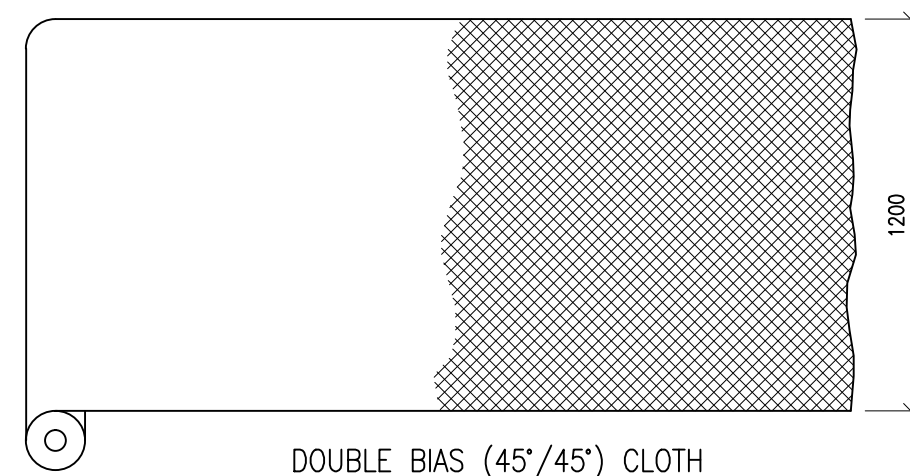
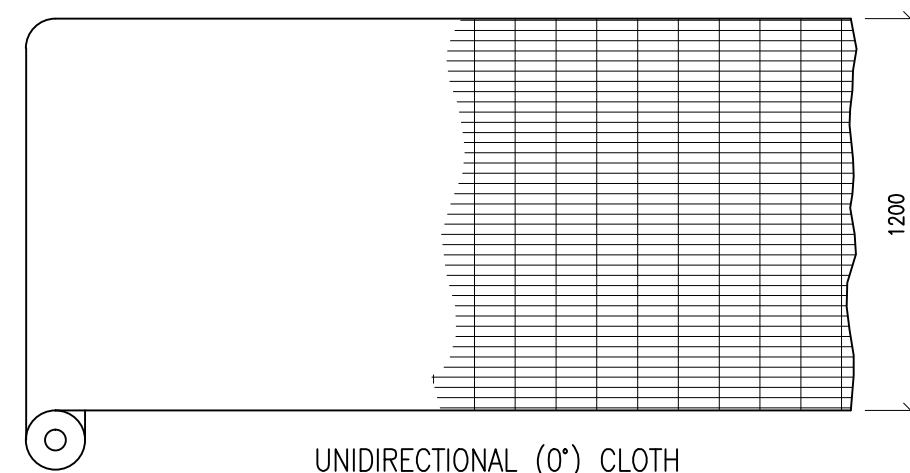
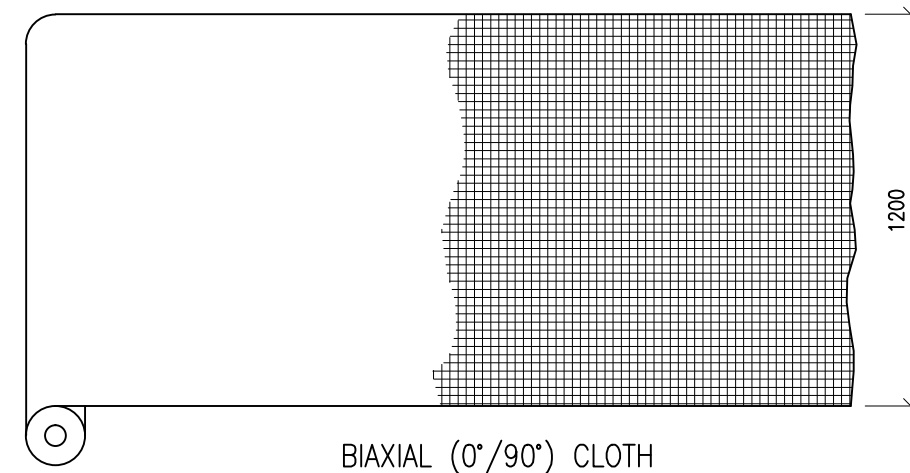
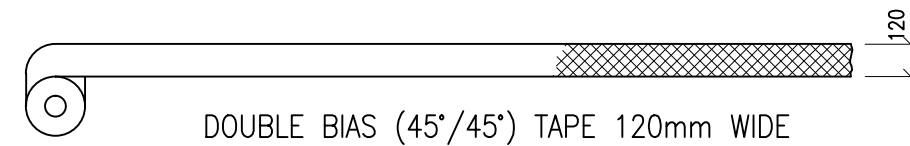
DATE: FEB 2012

SCALE: NOT TO SCALE

DRAWING NUMBER

S32-SP09

MDF OR SECOND GRADE PLYWOOD	16mm	15 SHEETS
PLYWOOD MARINE GRADE	9mm (2400 x 1200)	65 SHEETS
PLYWOOD MARINE GRADE	12mm (2400 x 1200)	6 SHEETS
FIBREGLASS	600gsm BIAxIAL CLOTH (1200mm WIDE)	30 LIN METRES
	600gsm DOUBLE BIAS CLOTH (1200mm WIDE)	120 LIN METRES
	900gsm UNIDIRECTIONAL CLOTH (1200mm WIDE)	100 LIN METRES
	580gsm TRIAXIAL CLOTH (1200 WIDE)	150 LIN METRES
	450gsm UNIDIRECTIONAL CLOTH (1200 WIDE)	150 LIN METRES
	600gsm DOUBLE BIAS TAPE (120mm WIDE)	250 LIN METRES
	450gsm DOUBLE BIAS TAPE (100mm WIDE)	50 LIN METRES
	450gsm CHOPPED STRAND MAT (1000mm WIDE)	12 LIN METRES
PEEL PLY		400 LIN METRES
RESIN	EPOXY	600 kg
FILLETING POWDER	AEROSIL / CABOSIL	5 kg (APPROX)
SANDING FILLER	Q CELLS	5 kg (APPROX)
LEXAN FOR WINDOWS	6mm THICK TINTED	1.5 SQUARE METRES
PAINT – HIGH BUILD UNDERCOAT	PREFERABLY 2 POT POLYURETHANE	APPROX X LITRES
PAINT – GLOSS TOP COAT	PREFERABLY 2 POT POLYURETHANE	APPROX X LITRES
FOLDING SYSTEM	WATER CUT ALUMINIUM 5083 ALLOY, H321 TEMPER (ALLOW APPROX \$1300 AUD)	
PIVOT PINS	6061 ALLOY T6 TEMPER (ALLOW APPROX \$100 AUD)	
ALUMINIUM FLAT BAR 50mm X 12mm	FOR BACKING PLATES	5 LIN METRES
SIKAFLEX SEALANT		10 CYLINDERS (APPROX)
VARIOUS FABRICATED & STANDARD FITTINGS (EG RONSTAN)		
VARIOUS NUTS, BOLTS & SCREWS		
CONSUMABLES	GLOVES PAPER TOWELS MIXING JUGS & CUPS MEASURING PUMPS FOR EPOXY / MEASURING CUPS FOR POLYESTER CATALYST MIXING STICKS SOLVENT FOR CLEANING – ACETONE OR WHITE VINEGAR 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 RANDOM ORBITAL SANDER (PREF 150mm DIA) FILES & RASP RULER 10 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. MAY BE HOME MADE OR MODIFIED PUTTY KNIVES OR PLASTERER'S TOOLS. PLASTIC GYPROK FILLER SPREADERS WORK WELL FOR EPOXY / STEEL FOR POLYESTER	
	4 SHEETS 16MM PLYWOOD (SECOND GRADE) COVERED WITH PLASTIC. MAY BE SUPPORTED ON SAWHORSES. 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

Scarab 32
32 foot CRUISING TRIMARAN
MATERIAL LIST-PLYWOOD CONSTRUCTION

Team Scarab
MULTIHULL DESIGNS BY RAY KENDRICK
466 DEVERON ROAD GLENWOOD QLD 4570

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DATE: FEB 2014

SCALE: NOT TO SCALE

DRAWING NUMBER

S32-SP10