### Material List for Foam Sandwich Construction

**MOF or Second Grade Plywood**
- 16mm
- 8 Sheets

**Marine Plywood**
- 12mm
- 1 Sheet

**FOAM**
- 10mm 75kg/m² m (standard density)
- 28 Sheets (Sheet Size 2170x1220)

**Fiberglass**
- 400gsm Biaxial Cloth (1200mm wide)
- 125 Lin Metres
- 400gsm Double Bias Tape (1000mm wide)
- 465 Lin Metres
- 400gsm chopped strand mat (1200mm wide)
- 10 Lin Metres
- 600gsm Double Bias Cloth (1200mm wide)
- 12 Lin Metres
- 900gsm unidirectional Cloth (1200mm wide)
- 11 Lin Metres
- 750gsm Triaxial Cloth (1200mm wide)
- 28 Lin Metres

**PEEL PLY**
- 150 Lin Metres

**Resin**
- Polyester, vinyl ester or epoxy
- 175 Litres

**Filling Powder**
- 20 kg

**Sand Filler**
- 5 kg

**Loam for Windows**
- 6mm thick tinted
- 2300 x 600

**Paint-High Build Primer/Undercoat**
- Preferably 2 Pot Polyurethane
- APPROX 12-16 Litres

**Paint-Gloss Top Coat**
- Preferably 2 Pot Polyurethane
- APPROX 12 Litres

**Folding System**
- Laser or water jet cut 6081 Alloy, K321 Temper
- (Allow approx $1300 AUD)
- 6081 Alloy 16 Temper (Allow approx $100 AUD)

**Aluminum Flat Bar 25mm x 6mm**
- For backing plates
- 2 Lin Metres

**Skaflex Sealant**
- 2 Cylinders

**Various Fabricated & Standard Fittings (eg: Ronstan)**

**Various Nuts, Bolts & Screws**

**Consumables**
- Gloves
- Paper towels
- Measuring jugs & cups
- Measuring pumps for epoxy
- Measuring sticks
- Solvent for cleaning - acetone for polyester or vinyl ester
- White vinegar for epoxy
- Brushes
- Sand discs
- Sand paper
- Gyprex (drywall) screws (for temporary assembly)

**Tools Required**
- Jig Saw
- Drill & Drill bits
- Screwdrivers
- 100mm Angle Grinder
- Rubber backed sanding disk for grinder
- Random Orbital Sander (pref 150mm dia)
- Files & Rasp
- Ruler
- 8 metre measuring tape
- Square
- Filing tools
- May be home made or modified putty knives or puttyer’s tools
- Spreader (for fairing compound)
- Plastic Gyprex filler spreaders work well
- Several chisels
- Stanley knife (sometimes called a box cutter)
- Scissors
- Laminating tables
- 3 sheets 16mm plywood (second grade) covered with plastic. May be supported on saw horses.
- Saw horses
- Standard saw horses or the folding clamping chequers. (The legs can be shortened if required)
### MAIN HULL COMPONENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HULL PANELS #</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>BULKHEADS</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>PARTIAL BULKHEADS</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>SHELF **</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>SETTEE RSRS</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>CENTREBOX CAGE</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>COCKPIT SEAT RSRS</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>COCKPIT SEAT S/</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>CABIN SIDES</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>DECK **</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>HATCH</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
</tbody>
</table>

**BOTTOM PANEL TO HAVE 1 EXTRA LAYER OF 300gsm DOUBLE BIAS CLOTH ON THE OUTSIDE**

**SHELF COMPRIS ES BUMPER TRIM TOPS AND COCKPIT FLOOR**

**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.**

### FLOATING HULLS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HULL PANELS #</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>BULKHEADS 2 &amp; 5</td>
<td>9mm PLY (UNCOVERED)</td>
</tr>
<tr>
<td>DECK **</td>
<td>6mm PLY COVERED BOTH SIDES WITH 300gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>BULKHEADS 4A,4B</td>
<td>9mm PLY FILLETED &amp; TAPED TO HULL PANELS BOTH SIDES WITH 400gsm DOUBLE BIAS CLOTH</td>
</tr>
<tr>
<td>BEAM MOUNTING</td>
<td>45/45 TAPE x 100mm WIDE</td>
</tr>
</tbody>
</table>

**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.**

---

**MDF or Second grade plywood 16mm 8 SHEETS**

- **Plywood**
  - 6mm Gaboon (Doume) or Pacific Maple 20 SHEETS (SHEET SIZE 2400x1220)
  - 9mm Gaboon (Doume) or Pacific Maple 6 SHEETS (SHEET SIZE 2400x1220)
  - 12mm Gaboon (Doume) or Pacific Maple 2 SHEETS (SHEET SIZE 2400x1220)

- **Fibreglass**
  - 300gsm BIAxIAL CLOTH (1200mm WIDE) 115 lin metres
  - 400gsm DOUBLE BIAS TAPE (100mm WIDE) 465 lin metres
  - 450gsm CHOPPED STRAND MAT (1200mm WIDE) 10 lin metres
  - 600gsm DOUBLE BIAS CLOTH (1200mm WIDE) 12 lin metres
  - 800gsm UNDIReCTIONAL CLOTH (1200mm WIDE) 11 lin metres
  - 750gsm TRIAXIAL CLOTH (1200mm WIDE) 28 lin metres

- **Ply**
  - 150 lin metres

- **Resin**
  - 170 litres

- **Filleting powder**
  - 20 kg

- **Sanding filter**
  - 5 kg

- **Leg for windows**
  - 6mm thick tinted 2300 x 600

- **Paint**
  - High build undercoat
    - Preferably 2 pot polysulfone
    - Approx 12-16 litres
  - Gloss top coat
    - Preferably 2 pot polysulfone
    - Approx 12 litres

- **Fold/Wing System**
  - LASER OR WATER JET CUT SIDES ALLOY T303 TEMPER (ALLOW APPROX $100 AUD)
  - 6061 ALLOY 6 TEMPER (ALLOW APPROX $120 AUD)

- **Aluminium flat bar 25mm x 6mm**
  - For bracing plates 2 lin metres

- **Skeg sealant**
  - 2 cylinders

### Various fabricated & standard fittings

- **Cog Ronstan**
- **Various nuts & bolts & screws**

### Consumables

- Gloves
- Paper towels
- Mixing jug & cup
- Measuring pumps for epoxy
- Mixing sticks
- Solvent for cleaning - acetone for polyester or vinylester
- White vinegar for epoxy
- Brushes
- Sanding discs
- Sand paper
- Graphite (dry wax) screws (for temporary assembly)

### TOOLS REQUIRED

- Jig Saw
- Drill & Drill bits
- Best to have both mains power and cordless.
- Several hole saws
  - 150mm Angle Grinder
- Rubber backed sanding disk for grinder
- Diamond cutting disc for angle grinder
- For cutting thick fibreglass eg trimming beam flanges
- Random Orbital Sander (pres 150mm disc)
- Files & Rasp
- Ruler
- 8 metre measuring tape
- Square
- **Fillers & Trimming**
  - May be home made or modified cutlery knives or plater's tools.
  - Spreader (for fairing compound)
  - Plastic Graphite filler spreaders work well
  - Several chisels
  - Stanley knife (sometimes called a box cutter)
- **Spray**
- Laminating tape
- 3 sheets 16mm plywood (second grade) covered with plastic. May be supported on sawhorses.
- Saw horses
- Standard saw horses or the folding clamping cheepers. (The legs can be shortened if required)