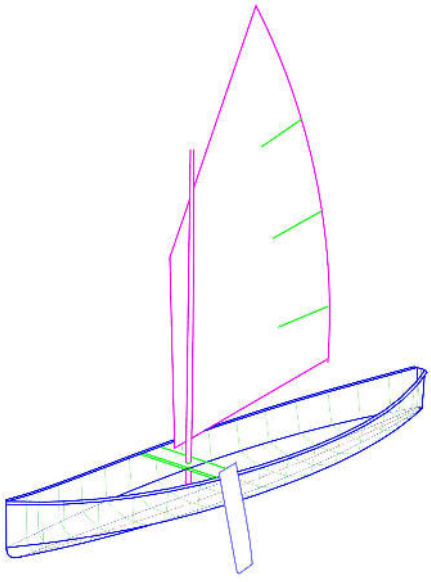
# How to build the KOMBI Sail/Paddle Canoe



**DESIGNER**

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# TIMBER – METRIC AND IMPERIAL LISTS

Materials list - all dimensions are finished sizes and are in mm unless stated otherwise.

**Light** – WRC (Western Red Cedar) or other light, stable, straight grained timber with good gluing properties. No loose or large knots. Alternatives are Kirri (Paulownia), lighter Luan/Mahogany or any other light timber.

**Medium** - Douglas Fir (oregon) or spruce, select dry stock. Fine grain, no knots. Alternative is Hoop Pine or other pine, Red Luan in Asia or light timber with straight grain and excellent gluing properties.

**Hardwood** - Straight grained hardwood of medium density with good machining and gluing properties. For example Brazilian Cedar, Pacific Ash, Tassie Oak.

## 50-50 canoe timber list Metric and Imperial

## Metric

**/ - means total length required**

| Part | Size | Length | Qty | Species | Comment |
|---|---|---|---|---|---|
| 4, 5 or 6mm Ply (minimum size) | 2440 x 1220 | - | 3 | Gaboon | (hull skin)**See note below |
| Gunwales | 25 x 19 | 5100 | 2 | Oregon | |
| Inwales, Spacers and Misc | 25 x 15 | 5100 | 4 | Oregon | |
| Tiller | 25 x 15 | 2000 | 2 | Oregon | |
| Seat and Seat Supports | 45 x 19 | 8000 | / | Oregon | |
| Bottom Batten | 25 x 19 | 3600 | 1 | Oregon | |
| Transom, mast step/part, knees ,skeg | 140 min x 19 | 2400 | 2 | Oregon | |
| Staves leeboard/Rudder | 40* x 24 | 2400 | 6 | WRC | * adjust for total 250mm width |
| trailing edge leeboard/rudder | 24 x 19 | 2400 | 1 | Hardwood | |
| Rudder case and tiller spacer | 45 x 25* | 600 | 1 | Oregon | * 25mm exact |
| Boom | 45 x 19 | 2500 | 2 | Oregon | |
| Yard | 38 x 31 | 3000 | 1 | Oregon | |
| Mast Aluminium 6000 series T6 | 50 diam 2mm wall | 3800 | 1 | | |

## Imperial

**/ - means total length required**

| Part | Size – Ins | Length ft | Qty | Species | Comment |
|---|---|---|---|---|---|
| 4, 5 or 6mm Ply | 8ft x 4ft (min) | - | 3 | Gaboon | (hull skin)**See note below |
| Gunwales | 1 x ¾ | 17 | 2 | Oregon | |
| Inwales, Spacers and Misc | 1 x 5/8 | 17 | 4 | Oregon | |
| Tiller | 1 x 5/8 | 6 | 2 | Oregon | |
| Seat Supports | 1¾ x ¾ | 24 | / | Oregon | |
| Bottom Batten | 1 x ¾ | 12 | 1 | Oregon | |
| Transom, mast step/part, knees ,skeg | 5½ min x ¾ | 12 | 2 | WRC | |
| Staves leeboard | 1¾ x 1 | 8 | 6 | WRC | * adjust for total 10” width |
| trailing edge leeboard | 1 x ¾ | 8 | 1 | Hardwood | |
| Rudder case and tiller spacer | 1¾ x 1 | 2 | 1 | Oregon | * 1” exact |
| Boom | 1¾ x ¾ | 8 | 2 | Oregon | |
| Yard | 1½ x 1¼ | 10 | 1 | Oregon | |
| Mast Aluminium 6000 series T6 | 2” diam x 0.08 wall | 13 | 1 | | |

## Stainless Steel Fasteners – (excluding spars listed on Website)

Two screw in plastic inspection ports (Deck Plates) for bulkhead versions. They will be glued in, no screws necessary.

There are so many options available with this boat I’ve just listed the most essential fastenings.

| Location | Type | Head | Diam Imp | Length ins | Diam mm | Length mm | Qty |
|---|---|---|---|---|---|---|---|
| Leeboard Mount | Bolt with Nyloc nut | Flat/CSK | ¼ | 1.5 | 6 | 38 | 2 |
| – Plain Shank | Bolt with Nyloc nut | Hex | ¼ | 1.5 | 6 | 38 | 2 |
| – Inwale bolts | Bolt with Nyloc nut | Flat/CSK | 3/16 | 2 | 4.8 or 5 | 20 | 2 |
| Seat frame bolts | Bolt no nut | Flat/CSK | 3/16 | 3 | 4.8 or 5 | 75 | 8 |
| Spreader bar screws | Self Tapper | Flat/CSK | 10g | 1.5 | 10g | 38 | 4 |
| Tiller and Stiffener | Bolt with washers Nyloc nut | Pan/Round | 3/16 | 3 | 4.8 or 5 | 75 | 2 |
| Rudderbox gudgeon | Bolt with Nyloc nut | Pan/Round | 3/16 | 2 | 4.8 or 5 | 50 | 2 |
| Rudderbox gudgeon | Bolt with Nyloc nut | Flat/CSK | 3/16 | ¾ | 4.8 or 5 | 20 | 4 |
| Transom gudgeon | Bolt with washers Nyloc nut | Pan/Round | 3/16 | 2 | 4.8 or 5 | 50 | 4 |