



Team Scarab multihull designs

Thanks to all of our customers who have sent photos of their boats to us so we can share them with you.

Regards,

Team Scarab.

Team Scarab offers professionally drawn plans for home builders to build a boat at home. All of the plans are \$150 AUD delivered by email.

All the information and dimensions required are on the plans. You can print them out on A4 paper on your home printer, and then if required, have them enlarged in a photocopier machine to A3 size. Use a scale factor of 1.414.

Some of the designs have an option to purchase full size PDF drawings that can be printed using a continuous roll A0 plotter. These files are offered for \$60 AUD extra.

The newer designs are drawn to be built in foam sandwich. If the design is detailed for plywood a reinforcement schedule is available if the customer wants to build in foam sandwich.

Some people want to know if catamaran floats and rig can be used on these trimarans.

The answer is no for the floats. Most cat hulls don't have sufficient buoyancy or volume to be used as trimaran floats. Some are not strong enough when loaded sideways, e.g. when a trimaran is sailing to windward in choppy water the

force on the float forward of the forward beam is considerable. If there are no stringers or sub-deck shelf the float can snap at the forward beam.

The design of every part of a folding trimaran has to be integrated into the total package so that it folds on the water and will be within legal trailering width.

Mounting the beams in the cat hulls is generally not possible. The beams need to connect to bulkheads and unless the deck is removed and new bulkheads built in this is not possible.

Most other stuff off the cat can be used including the trailer if properly modified. All the running rigging, some of the standing rigging and most of the fittings can be used. One of the rudders may also be adapted if of suitable size.

The rig can certainly be used if the cat sail area is similar to the trimaran sail area as designed.

We grade our designs according to the expertise of the builder.

Beginner – The builder needs to have basic experience using tools, but have not necessarily built a boat before.

Intermediate – The builder needs to be experienced using tools and some boat building experience would be helpful.

Experienced – The builder should be a competent boat builder.



Team Scarab multihull designs

This boat was designed to be built by a **Beginner**. The builder needs to have basic experience using tools, but have not necessarily built a boat before.

Specifications

Length overall..... 3.445m (11' 4")

Beam Overall..... 2.286m (7' 6")

Sail area:

Main..... 5.5 sq. m (60 sq. ft.) pocket luff

Jib..... 2 sq. m (22 sq. ft.)

Screecher..... 4 sq. m (44 sq. ft.)

Construction: 4mm marine plywood - stitch and tape or fibreglass foam sandwich.

Beams: Ply or foam and fibreglass.



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This boat may be transported on a small box trailer, also beams and floats are demountable if required for car topping. The boat is sailed sitting on the side deck or trampoline with a standard rudder/tiller. It is suitable for 1 or 2 crewmembers.

The main hull and the floats have sealed buoyancy chambers for added safety.

Study Plans: The boat cannot be built from the study plans but are provided for information and basic pricing. Price of study is normally \$15 AUD

Plans: the full plan set is required if the you want to build this boat. It contains all the information and dimensions required. The plans are presented in PDF format. These can be printed on your home printer on A4 size paper or sent to a photo copier to enlarge to A3 size. Plans consist of 21 drawings in PDF format emailed within 24 hours. Price of the plans is normally \$150 AUD.

Full size paper templates: these are provided as PDF files that may be printed by a Plan printing Business. The plan printer must have a "continuous roll A0 plotter". The full size templates are only required if desired, all the dimensions required to build are included in the full plan set. Full size templates normally \$60 AUD extra.



SPECIFICATION

MAIN 5.5 SQ METRES
 JIB 2 SQ METRES
 SCREECHER 4 SQ METRES
 MAST LENGTH 5300mm

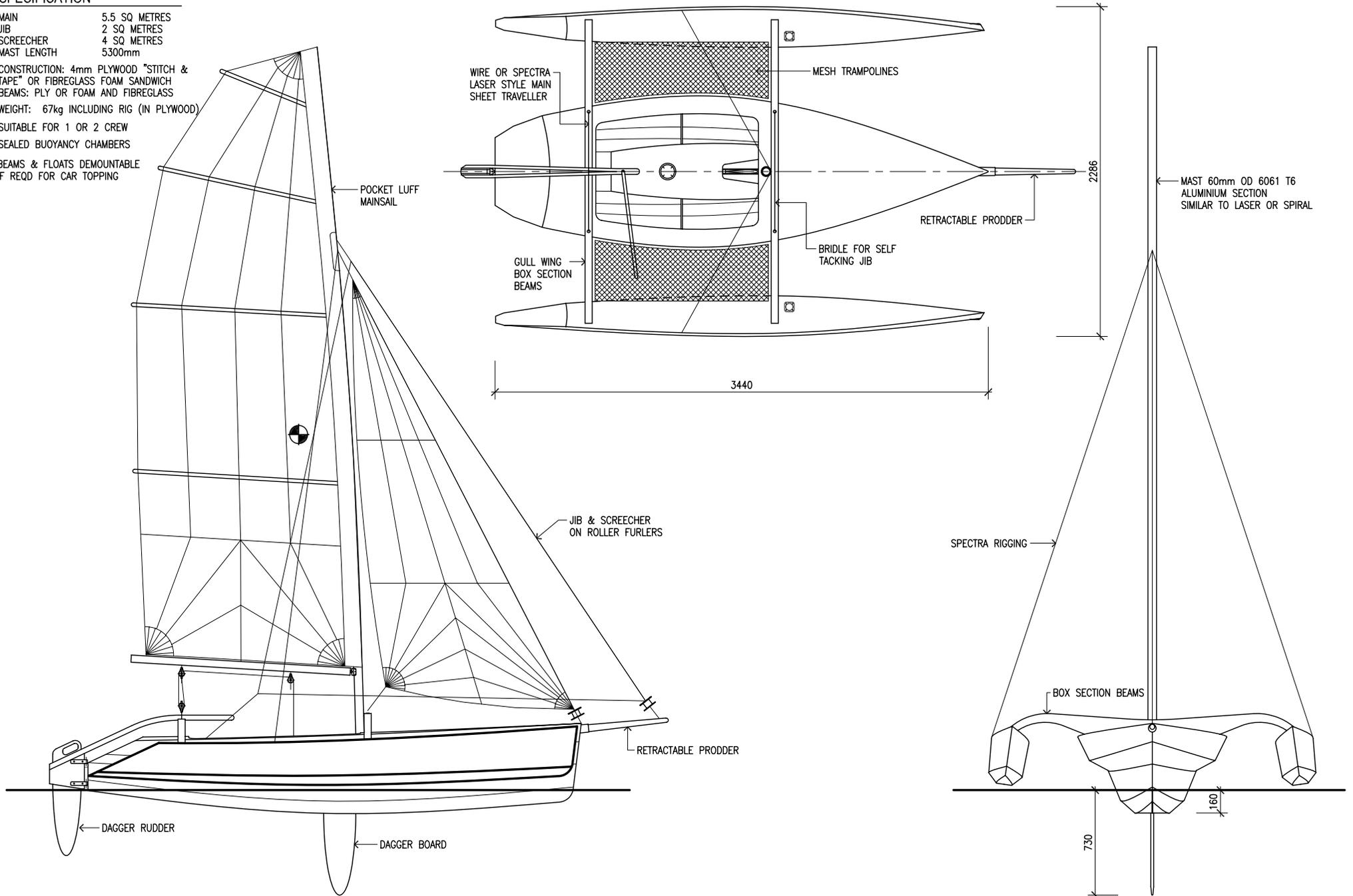
CONSTRUCTION: 4mm PLYWOOD "STITCH & TAPE" OR FIBREGLASS FOAM SANDWICH
 BEAMS: PLY OR FOAM AND FIBREGLASS

WEIGHT: 67kg INCLUDING RIG (IN PLYWOOD)

SUITABLE FOR 1 OR 2 CREW

SEALED BUOYANCY CHAMBERS

BEAMS & FLOATS DEMOUNTABLE IF REQD FOR CAR TOPPING



PHOTOCOPIER
 SCALE UP A4 DRAWING BY 1.414 TO OBTAIN A3 SIZE



Scarab Three Fifty
 3.5 metre Trimaran
 GENERAL ARRANGEMENT

Team Scarab
 MULTIHULL DESIGNS BY RAY KENDRICK
 M/S 279 GUNALDA QLD, 4570 PHONE 07 41939162

© R. KENDRICK 2006
 DATE: JAN 06
 SCALE: 1:25
 DRAWING NUMBER 350-sp01



This design is for **Intermediate builders**. Some boat building experience would be helpful.

Specifications

Length overall..... 3.445m (11' 4")
Beam Overall..... 2.286m (7' 6")
Sail area:
Main..... 5.5 sq. m (60 sq. ft.) pocket luff
Jib..... 2 sq. m (22 sq. ft.)
Screecher..... 4 sq. m (44 sq. ft.)
Construction Foam sandwich.
Beams Aluminium sliding tubes.

The Scarab 12 is similar to the Scarab 350. Same size but with round bilge and adjustable width beams. This boat is designed to be built in foam. The picture shown is of a moulded version. The shape will be similar but the cockpit is open with sliding aluminium beams.

Study Plans

Price of study plans normally \$15 AUD

Plans

Price of plans is \$150 AUD



SPECIFICATION

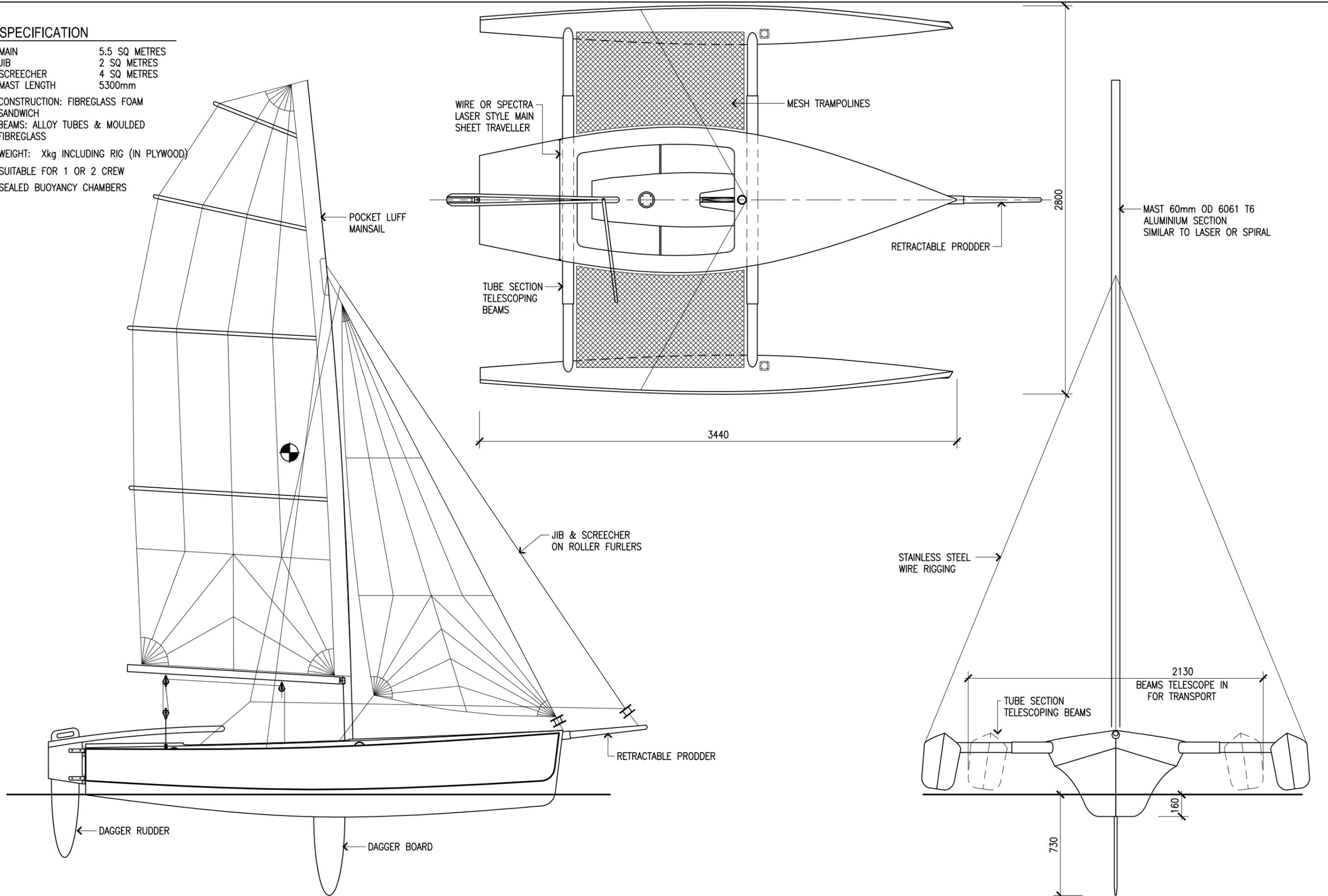
MAIN 5.5 SQ METRES
 JIB 2 SQ METRES
 SCREECHER 4 SQ METRES
 MAST LENGTH 5300mm

CONSTRUCTION: FIBREGLASS FOAM SANDWICH
 BEAMS: ALLOY TUBES & MOULDED FIBREGLASS

WEIGHT: Xkg INCLUDING RIG (IN PLYWOOD)

SUITABLE FOR 1 OR 2 CREW

SEALED BUOYANCY CHAMBERS



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Scarab Twelve
 12 foot / 3.5 metre Trimaran
GENERAL ARRANGEMENT

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

DATE: APR 15
 SCALE: 1:25

DRAWING NUMBER
S12-SP01