

Specification

for SAILSetc pre-preg hull mouldings

RG65, M, 10R & A Class

prices will be found on the Boat & Rig Order Form

- At the end of 2014 SAILSetc stopped building boats.
- The carbon boats in the RG65, M, 10R and A Class formerly made and supplied by SAILSetc are now available from BOATSetc.eu in Germany - sales@boatsetc.eu
- SAILSetc can supply pre-preg carbon hull mouldings in the state they come out of the mould (out of mould state) plus the other moulded component parts required to complete our RG65, M, 10R and A Class designs.
- The SAILSetc design IOM FRAKTAL 2 is available from Alex McMeekin in any stage from hull moulding through to completed hull with foils, ballast and hull fittings.
- The SAILSetc design RG65, M, 10R and A Class boats can also be finished by Alex McMeekin to various stages of completion - alex.mc@hotmail.co.uk - www.radioyachts.co.uk
- SAILSetc is able to fit rc equipment and/or rigs to boats built by Alex. Please see the Boat & Rig Order Form for details.

1 general information common to all classes

1.1 hull moulding surface finish

the surface finish of boats made using pre-preg carbon has the following features:

- the weave of the cloth is conspicuous
- the surface is very hard making it scratch resistant
- small holes/voids formed by the presence of air in the laminate may be present
- any manufacturing faults will be repaired and faired by the manufacturer but are generally inconspicuous
- the exterior surface is finished to a high degree of fairness, smoothness and polish

the hull mouldings have the following general features except where noted otherwise

- fin box and mast tube(s) are integral to the primary hull moulding

- the bow and stern are open requiring a bow transom and a stern transom to be fitted
- the hull of ARGON and QUARK is over length at bow and stern
- the deck is integral with the hull

1.2 other component parts

the other component parts supplied with a hull moulding are made in epoxy carbon with a natural carbon finish - they are made by hand lamination and are cured at a slightly elevated temperature to give them better temperature resistance - avoid exposing them to temperatures above 40 degrees C - they are supplied oversize and require trimming down to correct size before use

1.3 ballast castings

ballast castings for the RG65, M and 10R are made in aluminium moulds using lead alloyed with antimony to increase stiffness - additional features

- brass rod running down the axis to help stiffen the fine ends
- thickened nose and tail to ensure lead flows properly into those parts of the moulds
- slot for the fin
- overweight and require reducing to weight

the ballast casting for the A Class is made in a sand mould using an alloy of lead and antimony to add stiffness - it is supplied overweight to allow for fairing to shape and finishing

1.4 general arrangement plan

we supply a general arrangement plan showing the following:

- position of fin, rudder and ballast
- position of mast
- position of major fittings
- position of rc equipment
- target flotation waterline
- target total weight

1.5 radio control equipment

the suggested radio control units are given on the Boat & Rig Order Form

2 RG65 – ARGON

2.1 hull moulding features

- 1 layers of 200 grams/m² woven carbon
- hull is 5 mm too long at bow and stern
- weight about 70 grams
- 10 mm ID mast tube for swing rig
- 8 mm ID mast tube for conventional rig

2.2 major hull structural components + appendages

- aft well moulding including transom - 311A
- mast recess moulding - 311RG
- rc tray - carbon/foam/carbon plate cut to external profile
- carbon/foam/carbon sheet for support for rc tray
- carbon/foam/carbon sheet for support for headsail swivel
- fin moulding - 370-RG
- rudder with stock - 360RG
- bumper - 330 ARGON

2.3 ballast

- 0.7 kg ballast casting

2.4 fittings pack

the fittings identified on the general arrangement are provided

2.5 parts to fit rc

- stainless steel rig - 46B
- small block - 61-008
- sail control arm - 67E
- spring to tension lines - 67K

3 Marblehead – QUARK

3.1 hull moulding features

- 2 layers of 160 grams/m² woven carbon
- laminated in one piece with 20 mm flange around aft deck opening(s)
- witness marks for setting out positions of fittings
- weight of about 310 grams with openings trimmed
- lowered centre deck & deck level pot recess built in
- otherwise a flush deck from bow to stern suitable for use with swing rig
- headsail boom swivel recess built in
- recesses for the snap in/out rigging screw system

- hull is supplied over length to allow trimming off at bow and stern to correct length

3.2 major hull structural components + appendages

- transom - TRANSOM-M
- rc tray moulding - 311Q
- fin moulding - 370-M
- rudder blade moulding - 360A
- bumper - 330 QUARK 2015

3.3 minor hull structural components

- diagonals to connect underside of shroud plates to bottom of mast tube - DIAG
- plates & connectors for snap in/out rigging screw system
- two tube J to join the recess in the foredeck (headsail swivel attachment) to hull bottom - TUBE-J
- tube M for the mainsheet post trunking and rc tray support - TUBE-M

3.4 minor components

- leading edge fillets for fin & rudder - 370LX
- mast heel casting - HEEL
- nut pads to bond over hexagonal bolts for rc equipment location - NPAD
- circular cover to bond over backstay hook - CIRC

3.5 ballast

- 3.6 kg ballast casting

3.6 fittings pack

the fittings identified on the general arrangement are provided

3.7 parts to fit rc

- stainless steel ring - 46B
- medium block - 61-010
- servo arm extender - 67B
- spring to tension the system - 67J
- plate to mount the winch - 67-280

4 Ten Rater - DIAMOND

4.1 hull moulding features

- 2 layers of 160 grams/m² woven carbon

- laminated in one piece with 20 mm flange around aft deck opening(s)
- witness marks for setting out positions of fittings
- weight of about 410 grams with openings trimmed
- length 1.68 metres when finished with bumper
- lowered centre deck, deck level pot recess & foredeck built in
- headsail sheet fairlead recess, headsail boom swivel recess & block mount recess built in
- recesses for the snap in/out rigging screw system

4.2 major hull structural components + appendages

- connector moulding between hull bottom & deck at rudder trunking - CONNECT-10R
- rc tray moulding - 311Q
- fin moulding - 370-M
- rudder blade moulding - 360A
- bumper - 330 DIAMOND-2009

4.3 minor hull structural components

- diagonals to connect underside of shroud plates to bottom of mast tube - DIAG
- plates & connectors for snap in/out rigging screw system
- two tube J to join the recess in the foredeck (headsail swivel attachment) to hull bottom - TUBE-J
- tube M for the mainsheet post trunking and rc tray support - TUBE-M

4.4 minor components

- leading edge fillets for fin & rudder - 370LX
- mast heel casting - HEEL
- nut pads to bond over hexagonal bolts for rc equipment location - NPAD
- circular cover to bond over backstay hook - CIRC

4.5 ballast

- 4.2 kg ballast casting

4.6 fittings pack

the fittings identified on the general arrangement are provided

4.7 parts to fit rc

- stainless steel ring - 46B
- medium block - 61-010
- servo arm extender - 67B
- spring to tension the system - 67J
- plate to mount the winch - 67-280

5 A Class – SWORD

5.1 hull moulding features

- 2 layers of 200 grams/m² woven carbon with 3rd layer in certain areas
- weight - about 950 grams (un-confirmed for new source)
- length - 1.95 metres when finished with bumper
- centre deck moulding with rc hatch and recess for pot
- foredeck with swivel attachment recess
- recesses for snap in/out rigging screws

5.2 major hull structural components + appendages

- connector moulding between hull bottom & deck at rudder trunking - CONNECT-A
- rc tray - carbon/foam/carbon plate cut to external profile
- fin moulding - 350H
- rudder blade moulding - 360A
- bumper - 330 SWORD

5.3 minor hull structural components

- diagonals to connect underside of shroud plates to bottom of mast tube - DIAG
- plates & connectors for snap in/out rigging screw system - 31-SET
- tube J to join the recess in the foredeck (headsail swivel attachment) to hull bottom - TUBE-J
- tube M for the mainsheet post trunking and rc tray support - TUBE-M
- 0.25 metres 14 mm OD carbon tube extension to main sheet post - CR-140

5.4 minor components

- mast heel casting - HEEL
- nut pads to bond over hexagonal bolts for rc equipment location - NPAD
- reinforcement plate for block mounted in bow - PLATE
- 130 mm of deck beam material to reinforce foredeck - 365
- moulded fairlead for sheet system - 67G

5.5 ballast

- 14 kg ballast casting

5.6 fittings pack

the fittings identified on the general arrangement are provided

5.7 parts to fit rc

- stainless steel ring - 46B
- large block - 61-013

- servo arm extender - 67B
- spring to tension the system - 67J
- plate to mount the winch - 67-380

PACKAGING, PACKING and CARRIAGE

The hulls are being built in Germany. Please enquire about current arrangements for delivery.

Collection of the boat and rigs will mean you avoid any packaging, packing and carriage costs. You may wish to bring or purchase one or more rig bags to ensure that these are protected during your return journey. Alternatively consider making a rig box to bring with you when you collect the rigs.

If the goods are to be sent to you, in the UK or outside the UK, then the packaging, packing and carriage costs will depend on the other options you choose, your own location, and the method of delivery that you prefer. We can give you some idea of the costs involved, and an absolute maximum figure, but cannot determine the actual figure until your final order is confirmed.

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