21ft Acorn
simple, trailable, minimalist, performance cruising catamaran
Large beach cat rig (plus foils, deck gear etc)
can be used instead of (racing) rig shown here.
Cruising rig also available

LOA 6.4m
LWL 6.35m
BOA 3.8m
Racing Sail Area (as shown)
Mainsail 19.6sqm
Jib 9sqm (screecher in red optional)
Empty weight 400kgs
Displacement to WL 720kgs
Draft 190, (1000 boards down)
2 single berths in hulls plus boom tent
headroom 1.3m

Hull materials:
4mm ply hull sides approx 12 sheets
6mm ply bulkheads, hull bottoms and decks approx 13 sheets
Sheathing 200g glass and epoxy
Chine joints are timber or glass tape/epoxy
Approx 25kg epoxy min

Acorn
Study Plan
Copyright WOODS DESIGNS
August 2010

Copyright WOODS DESIGNS August 2010

Acorn with modified Tornado rig (bigger jib fitted)
Acorn with modified Hobie 18 rig
(mainsail luff is reduced to allow boom to be raised)

Hull Cross Section Comparison with Janus (in red)

Hull Cross sections
(aft on left, fwd on right)
Note: For clarity cross-sections are at a different scale from other drawings

Hull Cross Section
in Cabin

Bowsprit takes forestay
and screecher/spinner

forward net
permanently
fitted to mast
beam sides in sail
tracks on hull sides tensioned at forward end

Mast beam mast section approx 200 x 120,
fitted vertically with track on underside

Tramp with diagonal lashing
(see tightens in two directions)
Permanently fitted to hull sides
sides in sail track underside mast beam, taut pull in sleeve
along aft end tensioned at 25 centres

LOA 6.4m
LWL 6.35m
BOA 3.8m
Racing Sail Area (as shown)
Mainsail 19.6sqm
Jib 9sqm (screecher in red optional)
Empty weight 400kgs
Displacement to WL 720kgs
Draft 190, (1000 boards down)
2 single berths in hulls plus boom tent
headroom 1.3m