



SEABOATER CATAMARAN 100 – Detailed Technical Specification

General: *Intended Purpose:* Economically-run and easily-sailed Sailing Work-Boat with endurance and off-shore capability to patrol and perform multiple tasks at outer reefs and islands

Design and Build: Queensland Transport Compliant. In-Class DNV or GL

Finish Quality: Durable, repairable, ease of maintenance

Arrangements: 20 berths in 6 x Sleeping Cabins
 4 x Heads inside
 1 x Head and 1 x Laundry with aft cockpit access
 Forward Working Cockpit; Aft Working Cockpit
 Saloon mess with seating for meals and for relaxation
 Comprehensive galley with Urn, Conveyor Toaster, Gas/ Electric cooking, etc
 Comfortable cabins, desks, chairs, bookcases, etc
 Entertainment and personal computers, etc
 Workshop and Bosun's locker, benches and equipment stowage
 Machinery Space with in-hull access.
 RIB stowage fore and aft, launch and retrieval gear
 Dive bottle stowage and bench
 Boarding from water easy access and staging-step for divers

Deck Equipment & Hardware: Main Windlass, hydraulic, chain counter, dual controls - at the helm and on the foredeck
 Stern Anchor Windlass, hydraulic
 1 x Towing Winch, 500mm x 36mmD, 30T pull
 2 x Tugger Winch, 100m x 20mmD, 13T pull
 2 x Towing Hook, 1 x 33T
 1 x Mooring-handling and Debris-Lifting Deck Crane, Effer 16000 3S, 10T @ 16m
 4 x Anchors; all chain rode
 Anchor Bridle and Storm Anchor
 Sail-handling winches, hydraulic
 Towing Bitts fore and aft
 Dinghy launch and retrieve for 6m RIB, with fore-and-aft tilt-cradle and electric/manual winch
 Dinghy Davit Crane for 4m RIB on foredeck, crane has gas assisted lift, slew control
 Heavy Duty Mooring Cleats
 Bow and Stern Rails and lifelines

Cockpit Amenities:	<p>2 x BBQs</p> <p>2 x Drinks Fridges</p> <p>2 x Drinks Fountains</p> <p>Cockpit access head and shower</p> <p>2 x Swim rinse showers</p> <p>Shade and Storm Covers</p>
Steering:	<p>Helm station with Hydraulic steering; `In-Class`</p> <p>N.B. The main helm is equipped with all controls, gauges and monitors</p>
Openings & Hatches:	<p>2 x Set each of Double Companionway doors to forward and aft cockpit</p> <p>Hatches 12 of 580 x 580</p> <p>& Ports: 6 of 520 x 400</p> <p>5 of 300 x 300</p> <p>6 of Escape Hatches</p> <p>10 of 400 x 200 Opening Ports</p> <p>Insect screens and shades on all overhead hatches</p> <p>Insect screens on other hatches and ports</p> <p>Shade screens on cabin glazing</p>
Machinery:	<p>2 x Yanmar 440hp – 6LY3-ETP Diesel , Shaft Drives, Dripless Seals</p> <p>2 x Narrow Blade or Feathering Propellers</p> <p>2 x Yanmar IS12 240vac Single Ø Generator Sets</p> <p>1 x 15 CFM 240vac Single Ø Air Compressor, secured</p> <p>1 x Bauer Capitano 140E 240vac Single Ø Dive Compressor</p> <p>8 x Dive bottle Filling-manifold</p> <p>1 x 24vDC Hydraulic Power Pack</p>
Bilge System:	In-Class with alarms and with plumbing-patched to the Fire-Pump suction
Hydraulics:	<p>A suitable size power pack 24vdc (see above)</p> <p>Nylon low-pressure feed-lines, returns to common reservoir</p> <p>Electro valves with manual over-rides</p> <p>Safety reserve accumulator(s)</p>
Fuel:	<p>4 x Integral Fuel Tanks</p> <p>Racor filters</p> <p>Transfer Pump</p> <p>Fuel delivery manifold</p>
Water:	<p>2 x Integral Fresh Water Tanks</p> <p>Water maker 283 lt/hr</p> <p>Transfer Pump</p>
Sullage:	<p>High capacity Pre-treatment tank, Spiral Transfer Pump</p> <p>24,000 lt/day Treatment System MARPOL compliant and In-Class (Ecomar 16)</p> <p>Post-treatment tank with both gravity and dockside discharge</p> <p>Grey water with diverters to Sewerage treatment system for sensitive areas</p>

Electrical:	<p>Qld Transport accredited design and survey. 32 x 210AH 12v sealed batteries in 2 x 24v banks Engine-crank batteries and radio-emergency battery Solar System (optional) Nav lights NUC lights Flood Lights Adequate house lights and reading bunk-lights Red night-sailing footlights Courtesy lights Cockpit lights and working lights Fans Air-Conditioning Outlets, 240vac and DC Digital Mobile TV Tuner Underwater lights 7 x TV sets 7 x Entertainment centres</p>
Electronics:	<p>Commercial robust package specified in consultation wit the Purchaser, E.g. Option One: Furuno; Seiwa; Sailor Option Two: Lorenz; TMQ; Marsili; Icom</p>
Accommodation:	<p>20 x Single Berths with Inner spring Mattresses Settees covered in high quality Leather or Fabric Dinette tables covered in laminate Soles laid in simulated Timber, Teak, Spanish cedar, or similar Lined Sleeping Cabins, bookshelves, desks, chairs, etc</p>
Galley:	<p>Stainless Steel benches, sinks 5 Burner Stove (4 Gas, 1 Electric) Convection Microwave oven Refrigerator / Freezer Pair (or a bank of smaller fridges) Conveyor Toaster, Hot-Water Urn Ceramic Water Filter</p>
Heads:	<p>5 x Heads with Automatic Electric Pump Out Facility, diverter valve to sewerage tank Separate shower stalls with pivot doors 5 x 24VDC electric</p>
Laundry:	<p>Washing machine Dryer; clothes rinsing-trough (adjoining the cockpit head) Camera and Mask rinsing-trough on external wall</p>
Notes:	<p>Composite stanchion sockets Mini-keels with end plates or dagger boards (cost-neutral) Large-Panel, vacuum bagged, In-House fabricated and CNC-Cut No-Scald device in hot water system Furniture in veneer bagged over balsa or over 40k/m3 foam</p>