



## **SURFARI 53**

### **SPECIFICATIONS AND STANDARD EQUIPMENT LIST**

#### **PRINCIPAL DIMENSIONS**

Length overall:	56.16'	17.12	m	(including bow sprit)
Length on deck:	52.59'	16.03	m	
Length waterline:	48.55'	14.80	m	
Beam max:	15.27'	4.65	m	
Draft canoe body:	2.05'	.625	m	
Draft keel:	6.72'	2.05	m	
Draft deep keel (lifting):	8.72'	2.65	m	(optional)
Displacement:	39,620 lbs.	17,974	kgs.	
Ballast:	11,960 lbs.	5,200	kgs.	
Ballast ratio:	32%			
I:	56.16'	19.06	m	
J:	17.91'	5.46	m	
P:	64.40'	19.64	m	
E:	23.19'	7.05	m	
Mainsail fat head:	999.7 sq. ft.	92.5	sq. m.	
100% fore triangle:	560.16 sq. ft.	52.03	sq. m.	
Total sail area:	1,560 sq. ft.	114.5	sq. m.	
Code-0:	1194 sq. ft.	111	sq. m.	
Fuel:	300 gals.	1,135	ltrs.	
Water:	300 gals.	1,135	ltrs.	
Black water capacity:	60 gals.	225	ltrs.	
Gray water capacity:	60 gals.	225	ltrs.	

#### **STRUCTURAL**

- Hull:** Epoxy resin-infused composite construction using various density and thicknesses Core-cell foams with solid laminate in the hull bottom and in way of the keel and centerline. Structural reinforcements are hand laid of stitched and knitted multi-axial E glass fabrics with carbon fiber in high load areas. Bulkheads are variable density and thickness Core-cell foam reinforced in high load areas, and laminated into the hull creating one contiguous, fully engineered e-glass and epoxy structure. Hull painted with owner's choice of *Alexseal* marine paint colors.
- Deck:** Epoxy resin-infused composite construction using Core-cell foam with extra high density core being used in way of all fittings. Reinforcements are hand laid, stitched and knitted multi-axial E glass fabrics.
- Classification:** Designed and built to meet and or exceed the ISO CE Mark Category A-Ocean as outlined in the Royal Yachting Association Recreational Craft Directive 2003/44EC.

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## DECK AND DECK HARDWARE

- Deck:** All vertical surfaces finished with glossy *Alexseal* paint, cabin house top in *Alexseal* painted nonskid in Owner's choice of colors. Cockpit sole and side decks are natural teak with black Sika Flex seams.
- Anchor Locker:** Molded into foredeck with flush, hinged teak covered hatch top. Located within the locker there is a self launching anchor roller with 55 lb. Delta anchor and 80m of 10mm chain. Pressure salt water anchor wash system with quick release hose located in anchor locker.
- Windlass:** *Lewmar* V3 24VDC electric stainless steel anchor windlass with two foot buttons and a remote control.
- Cleats:** Eight *Seasmart* flush mounted retractable stainless steel mooring cleats with 4-bolt bases installed on cap rail. Two (2) B320X are located at stem, Four (4) B240X cleats are located amidships, one pair each side. Two (2) B240X cleats located at port and starboard aft quarters.
- Winches:** Two (2) stainless steel electric *Lewmar* 58 self-tailing primary winches with 2.8:1/10.5:1 gear ratios and a 50.6:1 power ratio. Winch is controlled with *Schurter* stainless steel flush mounted buttons.  
Two (2) stainless steel electric *Lewmar* 50 self-tailing utility winches with 2.6:1/9:1 gear ratio and a 48.6:1 power ratio. Winch is controlled with *Schurter* stainless steel flush mounted buttons.  
Two *Lewmar* lightweight 250mm lock-in handles with ball grips.
- Hardware:** Genoa tracks are to be Antal 1.25" stainless steel T-track with Antal genoa cars and sliders.  
Deck organizers are to be Antal 823.052/S 3-sheave deck organizers on cabin house top.  
Antal 7312 screw-in pad eyes for (1) mainsheet, (1) Gennaker, (2) running back stays (2) halyard tails.  
One (1) Custom st. st. mast collar with Six (6) integral halyard blocks, hydraulic vang fitting, and halyard dead end tie down and two eye straps for halyard snatch blocks port and Stbd.  
One (1) 32 mm dia. Deep throat deck mounted flagpole socket with 1500mm varnished teak flagstaff.  
Two (2) Stainless steel 110 mm dia. deck plates for emergency tiller and rudder head access.  
Four (4) Custom stainless steel drink holders, inset of 95mm dia.  
Two (2) Custom stainless steel cubby holes with perimeter edges of polished stainless steel in p & s winch pods.  
Two (2) custom fabricated sheet storage bins located outboard of each helm station.  
Two (2) Custom fabricated stainless steel cockpit table base of 5" dia. pipe with a 1.25" dia. mounting flange with a custom eye strap, one each on cockpit table legs for safety harness tie downs.
- Hatches:** Two custom hinged cockpit seat hatches over port and starboard engine boxes, each fit with locking device, insulation and gas spring hold open devices.  
One (1) 720 x 720 drip proof flush teak cockpit sole hatch for access to forward engine room area located on centerline between cockpit tables.  
One (1) 1650 x 1300 teak covered hinged hatch over dinghy garage, water tight, with air seal at transom and locking latches. Custom hinges and gas spring hold open devices.  
One (1) flush drip proof, teak covered anchor locker hatch at stem.  
Two (2) 520 x 020 flush glass *Seasmart* coach roof mounted hatches.  
Two (2) 700 x 700 flush glass *Seasmart* deck house mounted hatches.  
One (1) 700 x 700 flush glass *Seasmart* coach roof hatch located under the sun cushion.  
Two (2) flush teak covered mid ship hatches for fender and dock line / fender storage.

Ensign:	5' varnished teak flag staff and 3'x 5' US yacht ensign commissioning flag. Stainless steel flush mounted flag socket.
Cockpit sole:	Natural teak deck on cockpit sole, side deck and fore deck.
Sheet stoppers:	Triple <i>Antal</i> 508.123 stainless steel sheet stoppers each side. Located on the port side is secondary genoa haly, gennaker haly and boom preventer. Located starboard side is the topping lift, stay sail haly, and main haly.
Main sheet:	<i>Navtec</i> A250 hydraulic cylinder fit with a 6:1 reverse purchase mainsheet system powered by a Lewmar Commander pump set. Main sheet operation via Antal foot buttons located at base of each helm port and starboard.
Boom Furling:	Hydraulically powered in boom furling system controlled by Antal foot switches for up / down, foot buttons located on cockpit sole adjacent to the starboard side secondary winch.

## EXTERIOR

Seating:	Molded cockpit seats finished with glossy <i>Alexseal</i> paint. Port and Starboard facing settees are fit with double angle back rests for ergonomic comfort. All settees come with custom seat and backrest cushions, 4" total thickness. All cushions upholstered in owner's choice of <i>Perennials</i> or equivalent fabric (\$100/yard allowance).
Cockpit table:	Two custom, fixed position varnished teak table tops with perimeter inlay each with polished stainless steel bases.
Steering wheel:	Two 1100mm <i>Jefa</i> carbon / laminated wood wheels with wheel disengagement.
Stowage:	Storage areas under port and starboard settees built into gimboling hanging baskets enabling access to the engines without displacing stored items.
Scuppers:	Custom stainless steel design, four in cockpit, four on deck, all with direct overboard drainage.
Windows:	Large safety glass side windows are to be opened via sliding, windows to be positively water tight, manually operated and tinted to match the overhead sky lights, cabin house ports and deck hatches.
Comp. door:	<i>Trend Marine</i> custom stainless steel four pane patio door aprox 3345 mm x 1850 mm. Door chemically toughened, and glazed to be tinted to match all other glass. The door is to be configured as fixed–sliding–sliding–fixed. Sliding panels to have positive locking devices to hold open and shut.

## INTERIOR

Interior finish:	Distressed, bleached teak veneers with matte finish on all surfaces.
Overhead:	Painted off-white panels, removable where needed.
Soles:	Distressed, bleached teak with matte finish.
Locker doors:	Distressed, bleached teak veneers with solid bleached teak corner posts, fiddles, and frames.
Drawers:	Distressed, bleached teak veneer fronts with lift and pull slides.
Table:	Distressed, bleached teak table top with carbon legs.
Countertops:	<i>Corian</i> (owner choice of color) at galley sink area and in head and shower. All other horizontal surfaces finished in distressed, bleached teak.
Sinks:	Stainless steel under-hung sink in galley; integral <i>Corian</i> sink in head.
Faucets:	<i>Grohe</i> wall-mount faucet in galley; <i>Grohe</i> cross-handle mixer tap in head and shower.
Shower:	<i>Grohe</i> hand-held shower unit mounted on head bulkhead.
Drainage:	Head sole with edge drain to gray water tank then direct overboard via discharge pump.
Fixtures:	Towel bar, soap dish, toilet paper holder, toilet brush, and tumbler holder.
Microwave:	<i>Sharp</i> microwave/toaster mounted on teak shelf in galley locker.
Coffee maker:	<i>Keurig</i> gourmet one-cup brewing system in galley locker with pull-out teak shelf.
Refrigerator:	Front opening electric fridge with removable shelving and bottle storage.

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Freezer:	Front opening electric freezer with removable shelving.
Stove:	<i>Force 10</i> three-burner cook top with galley counter cover plate.
Dish storage:	Custom storage of owner's supplied dishes, with pull-out teak shelf.
Garbage:	Custom over-sized bin in pull-out locker under galley sink.
Head:	<i>Tecma</i> 24 VDC electric fresh water flushing toilet.
Shower:	Large painted stall shower with bleached teak sole with perimeter drain and enclosed locker with drip proof seal.
Berths:	All berths to have 5" thick mattresses. The twin double staterooms to port and starboard will have purpose built stowage shelves and lockers adjacent to berths.
	Zip-on bed cover, sheets, mattress pad, and pillow cases all owners' choice of fabric.
Fabric:	All upholstery to be owner's choice. The standard fabric allowance is \$100/yard.

## MECHANICAL

Engine:	Two <i>Volvo D2-75</i> HP diesel sail drive engines with fresh water cooling, <i>Racor</i> fuel filters, 80 amp alternator for starting batter, 135 amp alternator for house batteries and an oil change pump included on each engine.
Autopilot:	<i>Simrad</i> AP28 with <i>Lewmar</i> drive unit, fluxgate compass and three control heads.
Gauges:	Custom stainless steel engine instrument panel with <i>Volvo</i> gauges for tachometer, oil pressure, fuel level and tank level. Repeated control at forward inside helm station.
Gearshift:	<i>Matthews</i> dual engine electric controls, one at each helm and nav station.
Fuel tank:	300 gallon welded translucent polyethylene fuel tanks with inspection/clean-out ports.
Filter:	<i>Racor</i> fuel filters.
Vents:	Vent lines with <i>Racor</i> LG100 vent spillage filters.
Steering:	Twin wheel / twin rudder steering using a <i>Jefa</i> drag and link steering system.
Rudder:	Twin balanced, elliptical spade rudders constructed with uni-directional glass rovings and 4" diameter carbon fiber shaft with roller type rudder bearings.
Air conditioning:	One 24,000 BTU <i>CruisAir</i> system in salon and one 1600 BTU <i>CruisAir</i> system in fwd stateroom with vents to each guest cabin.

## ELECTRICAL

House batteries:	Six Odyssey 214 Ahr batteries arranged in two banks, 1284 amp total capacity.
Start batteries:	Two Odyssey 760 CCA batteries one for each engine.
Distribution:	Two custom built back lit panels with circuit breakers and battery condition meter for 12/24VDC system. One custom built back lit panels with breakers and selectors for 120VAC systems.
Alternators:	Engine supplied standard alternator to charge starting bank, two additional <i>Balmar</i> 12V DC 210 amp alternators supplied to charge house bank.
Shore power:	125V / 30 amp shore power connection in cockpit with 50' cord.
Battery switch:	Battery bank switches are located adjacent to the DC main control panel.
Inverter:	24V DC / 120V AC, 2500W, <i>Mastervolt</i> inverter/charger combination unit to be switched on the main AC electrical panel. Inverter shall power microwave and 110V outlets.
Interior lights:	Six stainless steel <i>Ocean</i> reading lights, sixteen <i>Imtra</i> dome lights, seven courtesy lights. Eight <i>Imtra</i> flat utility lights in engine room and cockpit lockers controlled via <i>Vimar</i> rocker switches.
Exterior lights:	Masthead tri-color and anchor, bow, stern, spreaders, foredeck, and two boom lights.
12V outlets:	Two 12V plugs.
110V outlets:	Nine 110V plugs.

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## PLUMBING

Water system:	Hot and cold pressure water system to galley, head, shower, deck shower.
Water tank:	There will be two independently plumbed and valved tanks of 300 gallons total capacity. Water fills to be located on cockpit seat tops and hidden by seat cushions.
Water gauges:	<i>Faria</i> gauge for each water tank mounted at control station.
Water pump:	<i>Headhunter</i> Excaliber 10gpm self-priming water pump provides pressure to the transom shower, galley sink, forward head sink(s) and forward shower.
Water heater:	The <i>Force 10</i> , 6-gallon water heater will be heated via an AC electrical heating element and/or by circulating the main engines fresh water cooling system through the heater.
Toilet:	The <i>Tecma</i> Silence Plus long bowl 24 VDC electric fresh water toilet with discharge into the onboard holding tank. Holding tank can be discharged overboard via a <i>Sealand</i> T24 24 VDC discharge pump or via pump out discharge through deck fitting.
Bilge pump:	One automatic 24VDC bilge pump mounted in the engine room. Pump will discharge overboard at the waterline with vented loops. One manual Whale bilge pump operated from the cockpit.
Sump pump:	Two automatic 24V DC bilge pumps with direct overboard discharge.
Thru-hulls:	<i>Forespar</i> flush-mounted sea cocks below the waterline for engine, head, galley, air con and scuppers with double-clamped hoses.

## SPARS AND RIGGING

Mast:	Carbon fiber mast with two sets of carbon airfoil spreaders with lower spreader down lights, steaming light, fore deck light, internal masthead wire conduit, stainless steel gooseneck, vang lugs, and halyard attachment step. Mainsail track for in-boom furling mainsail and an <i>Antal</i> stainless steel halyard track and car for jib halyard. Two flag halyards to outboard tips of the lower spreaders.
Boom:	Carbon fiber, <i>MainFurl</i> , in-boom furling system with fittings for vang lug, topping lift, mainsheet bale and preventer. One LED boom light at mid-boom and one at boom end with dimmers. Controls for furling the mainsail will be located adjacent to starboard side secondary winch. Control buttons for the hydraulic mainsheet located at the base of each helm.
Jib furler:	<i>Furlex</i> flush deck 24 VDC electric genoa furler will be controlled via in / out <i>Antal</i> foot buttons located on the cockpit sole either side of both helm stations.
Code-0 furl:	<i>Selden</i> manual continuous loop line drive furler to be mounted on end of bowsprit with line leading aft to cockpit for asymmetrical down wind and reaching sails.
Standing rig:	<i>Navtec</i> rod rigging with <i>Navtec</i> turnbuckles and stainless steel covers.
Running rig:	The running rigging is <i>Samson</i> Warpspeed Double braid spectra with colored fleck, red for main halyard, main sheet and main preventer, blue for genoa halyards and sheets, green for Gennaker halyards and sheets.
Genoa haly:	<i>Antal</i> stainless steel track and car for genoa halyard adjustment on mast.
Chain plates:	Custom fabricated composite chainplates for baby stay and stem head tangs.
Boom vang:	One (1) boom vang in stainless steel main boom -40 rod size - Navtec #850-VC-040 SR 85A (1245 PCLC), One (1) manual hydraulic system with a stainless steel panel mounted in the cockpit for boom vang. Above deck hydraulic hoses to be reinforced stainless steel with stainless steel end fittings.
Backstays:	Twin removable PBO fiber running back stays with spectra tails for open water use with tensioning tackle for storing each.
Genoa tracks:	Two (2) <i>Antal</i> 602.212/S 32mm genoa traveler tracks (1.5 meters each) track to be bent to match the curve of the deck house, Four (2) <i>Antal</i> 622.492/S genoa cars, Four (4) <i>Antal</i> 691.241/S removable end stops, Two (2) <i>Antal</i> 622.462/S genoa sliders.

## NAVIGATION

- Compass: Two *Danforth* Saturn bulkhead mounted compasses with dual reading red cards mounted in arm rest forward of helm(s).
- GPS: One (1) *Garmin* 5212 touch screen plotter at nav station. Two (2) *Garmin* 5208 touch screen plotters (one at each helm) mounted in arm rest forward of helm(s).
- Radar: *Garmin* radar overlay with 18" dome, painted to match rig with custom stainless steel guard and bracket.
- B&Gs: Five *B&G* Hydra 3000 graphic function displays with masthead wind sensor and depth, speed, and temperature transducers. Locations to be one each side forward of the wheels, one either side of centerline above sliding glass doors. One unit located at inside control station.
- Radio: *Icom* IC-M504 VHF radio located at inside control station with the *Icom* hand-held control mic with plug in both sides aft of the wheel in rope storage locker.

## ENTERTAINMENT

- Stereo: The entertainment system is a satellite ready *Clarion* CMD4 stereo. The radio is installed in the deck salon adjacent to the electrical control boards. The interior speakers are mounted in the over head of the salon and a pair of exterior speakers is mounted in the vertical face of the helm seat in the cockpit. The interior speakers will be *Pioneer*, TS-G164OR 2-way 160W, white and the exterior speakers will be *Pioneer*, TS-MR1600 Nautica 6.5" 100W, white.
- Television: There will be a *Samsung* 32" LED 5300 Smart TV mounted on an in a recess behind the art piece on the forward port bulkhead in the main salon. During television use, the art piece will be stored in a felt compartment outboard of the television, just aft of the bulkhead.
- Television lift: The flat screen television will be mounted on an up / down 110VAC *INCA* lift system (electrically operated) that is built into joinery outboard of the forward helm station. The television will lift and rotate as allowed. The *INCA* rocker switch is to be mounted adjacent to the television lift.

## PAINT AND FINISH

- Hull: Owner's choice of standard *Alexseal* colors.
- Deck: Owner's choice of standard *Alexseal* colors.
- Bottom: Epoxy primed, painted with owner's choice of anti-fouling color.
- Boot stripe: Owner's choice of standard *Alexseal* colors.
- Cove stripe: Owner's choice of standard *Alexseal* colors.
- Boat name: Name and hail port painted on transom.

## OUTFITTING

- Custom sun awning – over boom tent with stainless spreader bars, custom bracket and canvas storage bag.
- Hand-held fresh water shower on aft deck with flush stainless steel cover plate and hot/cold mixer tap.
- Retractable folding stainless steel swim ladder pulls out of transom on centerline.
- Bug screens for main salon hatches..
- Four (4), 1" x 50' pre-spliced Mega Braid Nylon Line.
- Four 8" x 20" fenders with double braid lines and black fleece covers.
- Boat hook mounted in foredeck hatch.
- Two engine spares kits and metric tool kit with necessities as standard from engine supplier.
- Aluminum anodized bars in cockpit lockers for hanging extra lines, etc.
- Eight (8) Revere Type 1 Offshore life jackets, stored in two custom zippered bags.
- Four fire extinguishers mounted throughout boat.
- EPRIB – mounted underneath lazarette hatch.
- Flare kit with storage box.
- Hose, nozzle, bucket, brushes and misc starter kit of cleaning supplies.

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Whipping kit with storage bag, including needles, twine and leather palm.  
Pig stick with burgee.  
USCG required ship's bell with storage bag and mounted hanging bracket.

## **SAILS**

*North Sails Dyneema SRP 75* In boom furling mainsail, full battens, max roach with insignia, sail numbers and Sail Kote treatment.

*North Sails Dyneema SRP 75 115%* furling genoa with furling rope pad and UV leech and foot in (PSA Dacron) and Sail Kote treatment.

*North Sails C1* Roller furling Gennaker 60-70% girth in Norlon NO 1150 with Seldon CX 40 continuous rope drive furler, Anti-Torsion RF Luff Rope, sail numbers and Box Turtle storage bag.

## **COMMISSIONING / ORIENTATION / TRAINING**

Boat cleaned, tested and delivered in the water in Portsmouth, RI. Full owner's orientation in Portsmouth, consisting of four days of meetings with representatives of the primary suppliers, mast maker, sail maker, electronics suppliers etc. to familiarize each owner with the onboard systems. Includes review of equipment manuals, construction drawings and systems schematics followed by daily sail training and maneuvering practice.

## **DOCUMENTATION**

Surfari 53 Owner's Manual, all equipment manuals, construction drawings and all systems schematics.