



MARK MILLS DESIGN CAPE 31

PRODUCED BY

CAPE PERFORMANCE SAILING





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SPECIFICATION – BASE BOAT @ US \$167 500-00 EX VAT EX YARD in CAPE TOWN

Cape 31

<u>LOA</u>	9.56m
<u>LWL</u>	8.83m
<u>Beam</u>	3.1m
<u>Displacement</u>	1792.5 kg
<u>Draft</u>	2.45m
<u>I</u>	12.46m
<u>J</u>	3.6m
<u>P</u>	12.54m
<u>E</u>	4.35m

Construction

Vacuum laminated E-Glass/ foam cored/epoxy construction with carbon reinforcing
Internal structures built on female tooling to ensure uniformity
Carbon composite chain plates
Oven post cured structure

Equipment List

Rig

Sparcraft Carbon Split Mast, including rod rigging, two sets of spreaders.
One main halyard, one jib halyard, one spin halyard.
Sparcraft Aluminium Boom including outhaul
Windex, reciprocal for wind instrument
Mast is to be a split two part mast so as to fit into a 40ft container

Bow Sprit

Carbon fibre bow sprit, laid out for single tack line

Deck Layout

Runner winches Lewmar 30 self tailer
Primary winches Lewmar 40 winch (option of flat top or self tailer)
Traveller Track
4:1 Traveller system lead to mainsheet pod
4 x 40mm Cheek Blocks
2 x Cam Cleats
Course main sheet trim lead to trimming pod on swivel cam
Fine main sheet trim lead to trimming pod with blocks and cam cleats
Two Runner attachments; Runners 3:1
Athwartship jib tracks with cars
Up/down jib controls and associated internal purchase

Vang lead to central cabin top on swivel cam
3 x XTS Spinlock jammers with ceramic cams (jib, spinnaker and tack line)

6 x folding padeyes for spinnaker blocks and jib outboard lead
2 x 57mm spinnaker turning blocks
2 x 75mm ratchet blocks

Composite stanchions
Upper and lower life-lines to meet OSR 4.
Seadeck or similar foam cockpit material

Mechanics

Yanmar 2YM15 Engine
Yanmar SD 20 Sail drive leg with race boat fairing
Vetus 25 litre fuel tank
Vetus water strainer and water trap
Racor fuel filter
Gori 2 Blade folding propeller
Engine start control panel mounted in step panel
Spinlock ATU/Teleflex supplied throttle control
Fuel filler mounted on step
Whale Urchin manual pump with attached Recon flex hose

Electrical

1 x Deltec SMF 27 HCM-680 Battery
2 x Rule 500 GPM Bilge pumps mounted inside girder
4-way switch panel (Nav lights, instruments, bilge pump, spare)
1 x DC USB Charging socket
1 x LED Voltmeter
1 x Battery switch
1 x LED Bow nav light (bi colour)
1 x LED Stern nav light

Rudder

Prepreg Carbon Rudder Stock
Carbon tiller
Female moulded Rudder
Jefa bearings
Spinlock tiller extension

Keel Fin

Female moulded carbon keel fin, oven cured

Bulb

665 kg Lead bulb as per Mills spec

Hull, Decks & bottom

AWL Craft Gloss to topsides and under hull (Darker colours may have an additional cost)
AWL Craft Non Slip on Deck
(AWL Craft paint now supplied as standard for UK Class)

Running Rigging

Southern Ropes Running Rigging package, developed over the past 3 years of sailing

Container Shipping Framework

Reusable Container Shipping Framework (now supplied as standard for UK Boats)



UK OPTIONS - All Prices ex VAT, Prices correct as of March 2021

Prices of options subject to change without notice

SAILS

Top of the range Indicative pricing from various Sail Makers

UK Class Specification	Price EX Vat	
Main Sail		
Jibs x 2		
Jib OSR max		
Spinnakers x 3		
Total	\$38,000.00	

INSTRUMENTS

Example 1:

-3 x Triton² mast displays with sensors to provide wind, position, heel, trim, heading, speed and depth data.
-Mast bracket, cables, connectors, installation consumables and installation labour are included.

\$5,975.00

Example 2 (Grand prix)

-1 x Nemesis 9" touchscreen full colour mast display with a Hercules H5000 Processor which offers full calibration options.
-Sensors to provide accurate wind, position, heel, trim, heading, speed, depth, rudder reference, 3D motion and forestay load data.
-An H5000 Graphic display in the cockpit will ensure you can confidently ping the start line in all conditions, using reliable waterproof buttons.
-The cockpit mounted Vulcan 7" MFD is a fully functioning chart plotter with a full starting and course plotting package that will provide tactical course information with laylines. It also supports a wireless repeater screen, so that the navigation can be done from the rail.
-Mast bracket, cables, connectors, installation consumables and installation labour are included.

\$18,805.00

Instrument optional extras

System	Training	Labour	\$198.00
Price dependent on time required.			
ICOM	M25	Handheld	VHF
Waterproof, lightweight, buoyant marine VHF with USB connector charging.			\$182.00
Garmin		GNT10	\$225.00
Provides the ability to view instrument data on a compatible Garmin watch.			
Actisense		W2K-1	\$198.00
Data recorder with ability to download the data files using its Wi-Fi gateway.			
Precision	9	Compass	\$690.80
The instrument packages include a ZG100 heading and position sensor. If added, the P9 will become the primary compass, having two compasses will add some redundancy to the system.			
2	x	10/10	Instrument Display
These lightweight displays could be used as dedicated forestay load displays next to each of the runner winches.			\$1,338.00
Expedition Marine Software with UK 4D C-Map Chart and Winning Tides Module			\$1,637.00
This is an advanced PC based navigation software, with the chart and WT module, this is a complete solution for windward leeward and around the cans inshore race navigation. Please note a laptop is not included in this pricing.			
Mesa³ Tablet with a polarised screen cover and flip cover case			\$1,978.00
The Mesa range of rugged and waterproof tablets has been successfully proven on both inshore and offshore race boats. It is a great deck screen that can be used in wet conditions and viewed in polarised sunglasses.			
Peplink Surf SOHO Router with external antenna			\$388.00
This will provide a good quality and reliable networking solution. The on deck antenna will ensure the boat's network can be received from any position on board and the DHCP server will mean no PC or tablet IP settings will need to be changed.			
Peplink Balance 20X with external antenna			\$619.00
This Wi-Fi and 4G router would replace the Surf SOHO router if internet access is desired on the boat network. With a 4G SIM card inserted, this would allow anyone on the boat network to access the instrument system but also use the internet to look up live weather sites or even download emails etc.			

Total:

COSTS FOR EXPORTING FROM SA TO UK

Supply tools and sundries for rig stepping			
Package boat into container			
Split and package rig			
Various protective materials supplied			
Package bow sprit and staunions			
Load all contents into container			
Total	\$4,500.00		

SHIPPING

Shipment of 40ft container from C31 Factory to Hamble (UK)			
Total	\$5,200.00		

COMMISSIONING IN THE UK

Yard charges in UK to unload and build boat	\$1,200.00	
Labour to build boat and step rig/sea trial	\$4,000.00	
Supply and fit Harken Carbofoil (UK class standard)	\$760.00	
Total:		

SAFETY EQUIPMENT

Lfejackets kru sport x 7	\$735.00	
Fortress anchor	\$350.00	
Echomax inflatable radar reflector	\$115.00	
Jonbuoy horseshoe (soft)	\$115.00	
throw line	\$45.00	
anchor chain & rope	\$95.00	
buckets x 2	\$22.00	
smoke flares x 2	\$46.00	
foghorn	\$11.00	
1 kg fire extinguisher x 2	\$28.00	
first aid kit	\$42.00	
hacksaw	\$15.00	
Icom hh VHF	\$170.00	
compass	\$60.00	
	Total:	

COVERS – UK Supplied

Cockpit floor cover	\$280.00	
Continuous hiking rail cover set Canvas coverd	\$230.00	
Rope bags, cockpit with winch handle pockets x 4	\$380.00	
Rope bag tracks x 4	\$100.00	
Vang cover	\$45.00	
Mast Instrument cover	\$80.00	
Kite Hammock	\$100.00	
Retractable halyard bag	\$180.00	
Carbon frame work for halyard bag	\$225.00	
Neoprene mast foot cover	\$55.00	
Engine side covers with zips	\$95.00	
Boom Mainsheet guide	\$50.00	
Neoprene Hatch wave deflector	\$100.00	
Winch Covers x 4	\$140.00	
Hobble cover	\$45.00	
Carbon Pad eyes for misc attachments x 1	\$20.00	
	Total:	

SYSTEM
UPGRADES

Upgrades to sailing systems as used by majority of UK
Cape 31's

Spinnaker reeler x3 fitted (sheets and hallyard)	\$4,000.00
Spinnaker take down system	\$220.00
supply and fit adjustable jib hobble	\$300.00
supply and fit spinnaker halyard martin breaker	\$220.00
Supply and fit outboard lead rings	\$100.00
forehatch closing system	\$200.00

Total

SPARES/MISC

Spare bowsprit	\$2,100.00
Yard cradle	\$4,500.00