



C31

**MARK MILLS DESIGN CAPE 31
PRODUCED BY
CAPE PERFORMANCE SAILING**





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SCHEDULE 1 – SPECIFICATION – BASE BOAT @ US \$160 000-00 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>Displac</u>	1780 kg (+/- 15kg)
<u>Draft</u>	2.45m
<u>I</u>	12.46m
<u>J</u>	3.6m
<u>P</u>	12.5m
<u>E</u>	4.35m

Construction

Vacuum laminated E-Glass/ foam /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

Carbon Split Mast, including rod rigging, two sets of spreaders.
Halyards as specified in options list, 1 complete set included.
Sparcraft Aluminium Boom including outhaul
Windex

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 Harken Mid-Range 27mm Captive Ball Low-beam Track
4:1 Traveller Harken Mid-Range 27mm Hi-Load Captive Ball Loop Car
4 x Harken 40mm Cheek Blocks
2 x Harken Cam Cleats
Course main sheet trim lead to trimming pod on Harken swivel cam
Fine main sheet trim lead to trimming pod with Harken blocks and cam cleats

Two Runner attachments; Runners 3:1

Athwartship jib tracks with Ronstan pinstop cars
Up/down jib controls and associated internal purchase (Harken blocks)

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

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

Composite stanchions
Upper and lower life lines to meet SAMSA requirements

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
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 and tested to max strain levels

Bulb

665 kg Lead bulb glued to keel fin and secured with 2 x 20 mm stainless steel pins

Hull bottom

Nautix A4 T speed racing antifouling

RUNNING RIGGING

Standard South African Running Rigging package developed over the past 3 years sailing as specified in options list below.



SAILS OPTION- Top of the range Indicative price (Multiple Sail makers)			
UK Class Specification	Cloth	Price EX Vat	
Main Sail			<input type="text"/>
Jibs x 2			<input type="text"/>
Jib OSR max			<input type="text"/>
Spinnakers x 3			<input type="text"/>
	Total	\$38,000.00	<input type="text"/>

Instrument option 1		
3 x Triton ² 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	<input type="text"/>

Instrument option 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	<input type="text"/>

Instrument optional extras

<p>System Training Labour Price dependent on time required.</p>	\$198.00	
<p>ICOM M25 Handheld VHF Waterproof, lightweight, buoyant marine VHF with USB connector charging.</p>	\$182.00	
<p>Garmin GNT10 Provides the ability to view instrument data on a compatible Garmin watch.</p>	\$225.00	
<p>Actisense W2K-1 Data recorder with ability to download the data files using its Wi-Fi gateway.</p>	\$198.00	
<p>Precision 9 Compass 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.</p>	\$690.80	
<p>2 x 10/10 Instrument Display These lightweight displays could be used as dedicated forestay load displays next to each of the runner winches.</p>	\$1,338.00	
<p>Expedition Marine Software with UK 4D C-Map Chart and Winning Tides Module 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.</p>	\$1,637.00	
<p>Mesa³ Tablet with a polarised screen cover and flip cover case 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.</p>	\$1,978.00	
<p>Peplink Surf SOHO Router with external antenna 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.</p>	\$388.00	
<p>Peplink Balance 20X with external antenna 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.</p>	\$619.00	

Costs for Exporting

Dress, step mast and dock tune		
Guard wire and running rigging fitment		
Supply tools and sudries for rig stepping		
Package boat into container		
Split and package rig		
Supply re usable wooden cradle to fit in container		
Various protective materials supplied		
Package bow sprit and stauntions		
Load all contents into container		
Total	\$6,000.00	

Shipping

Shippment of 40ft container from C31 Factory to Hamble (UK)

Total \$4,100.00

Commisioning

Yard charges in UK to unload and build boat

\$1,200.00

Labour to build boat and step rig/ sea trial

\$3,000.00

Total \$4,200.00

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 \$1,849.00

COVERS

Cockpit floor cover	\$280.00	<input type="text"/>
Contunous hicking rail cover set Canvas coverd	\$230.00	<input type="text"/>
Rope bags, cockpit with winch handel pockets x 4	\$275.00	<input type="text"/>
Rope bag carbon tracks x 4	\$280.00	<input type="text"/>
Vang cover	\$56.00	<input type="text"/>
Mast Insterment cover	\$75.00	<input type="text"/>
Kite Hammock	\$69.00	<input type="text"/>
Retractable halyard bag	\$150.00	<input type="text"/>
Carbon frame work for halyard bag	\$225.00	<input type="text"/>
Neoprene mast foot cover	\$55.00	<input type="text"/>
Engine side covers with zips	\$95.00	<input type="text"/>
Boom Mainsheet guide	\$50.00	<input type="text"/>
Neoprene Hatch wave deflector	\$100.00	<input type="text"/>
Winch Covers x 4	\$190.00	<input type="text"/>
Hobble cover	\$25.00	<input type="text"/>
Carbon Pad eyes for misc attachments x 20	\$400.00	<input type="text"/>
Total	\$2,555.00	<input type="text"/>

System upgrades

Upgrades to sailing sytems as used by Tokoloshe 3

Spinnaker sheet reelers x2	\$2,300.00	<input type="text"/>
reeler nappys and acc	\$250.00	<input type="text"/>
Spinnaker take down system inc take up wheel	\$1,200.00	<input type="text"/>
supply and fit adjustable jib hobble	\$400.00	<input type="text"/>
supply and fit spinnaker halyard martin breaker	\$180.00	<input type="text"/>
Supply and fit outboard lead rings	\$50.00	<input type="text"/>
forehatch closing system	\$200.00	<input type="text"/>
Supply fully spliced and tapered marlow GP rope package	\$2,800.00	<input type="text"/>
Total	\$7,380.00	<input type="text"/>

Spares/ Misc

Bowsprit	\$2,100.00	<input type="text"/>
Yard cradle	\$4,000.00	<input type="text"/>