

SPECIFICATION

CNB 76'

**CNB**  
yacht builders

CONSTRUCTION NAVALE BORDEAUX  
CS 81217 - 162, quai de Brazza, 33072 Bordeaux CEDEX - France  
Tel: +33 (0) 557 80 85 57 - Fax: +33 (0) 557 80 92 81 e-mail: [cnb@cnb.fr](mailto:cnb@cnb.fr)



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## 0. GENERAL

These specifications were drawn up for the construction of a yacht with a length overall of 23.17 metres based on the drawings of the naval architect Philippe Briand, for a Category A fast bluewater cruiser project, as defined by the European Recreational Craft Directive.

These specifications should be read in conjunction with the architect's drawings.

The dimensions indicated, and in particular the draught, are approximate and not guaranteed due to normal construction tolerances, the salinity of the water, the boat's trim and the final displacement according to the optional equipment selected by the owner.

CNB will make the necessary trim adjustments by modifying the ballast before delivery of the boat.

### **0. 1. DOCUMENTATION**

The builder will provide documentation and warranty certificates in respect of all equipment installed on board.

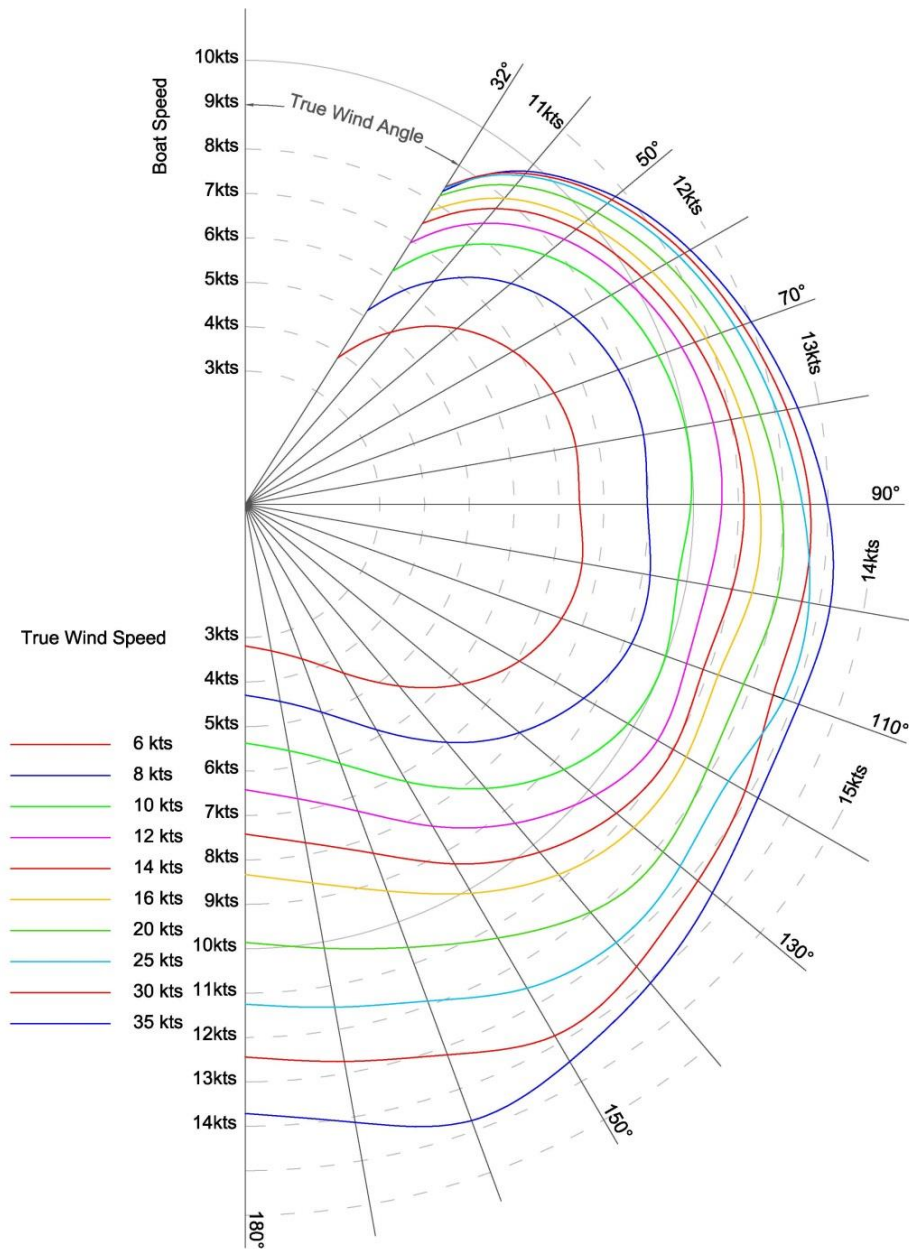
A Builder's Certificate

A CE Certificate of Conformity

A CE certificate in respect of water and fuel tanks

## 0. 2. POLAR SPEED DIAGRAM

### CNB 76 - Shallow draft (3.00 cast iron) & Aluminium rig - MSC Polar Diagram



PHILIPPE BRIAND Ltd



## 1. PRINCIPAL CHARACTERISTICS

Naval Architect: Philippe Briand  
Interior Designer: Jean-Marc Piaton / Rafael Bonet

Length overall .....	23.17 m
Length waterline .....	21.98 m
Maximum beam .....	6.10 m
Draught .....	3.00 m
Air draught (excluding aerials) .....	33.97 m
Light displacement (approx.) .....	45 t
Standard ballast (approx.) .....	15 t
I .....	30.00 m
J .....	9.06 m
P .....	29.00 m
E .....	9.60 m
Full batten mainsail area .....	160 m <sup>2</sup>
Furling Genoa area (approx.) .....	144 m <sup>2</sup>
Staysail area (approx.) .....	79 m <sup>2</sup>
Asymmetric spinnaker area (approx.) .....	440 m <sup>2</sup>
Main Engine .....	VOLVO D4 180 hp at 2800 rpm
Fresh water capacity .....	1550 l
Fuel capacity .....	2550 l

## 2. HULL/ BALLAST

### 2. 1. GENERAL

The structure of the CNB 76 is "Examined" by the Germanischer Lloyd classification society.

### 2. 2. HULL AND DECK

Laying out and assembly of the hull and deck will be executed in accordance with the architect's drawings and specifications.

The hull and deck will be built of a vacuum-infused fibreglass/foam/polyester resin sandwich.

Carbon fibre-reinforced deck beam shelf and deck beams.

#### 2. 2. 1. WATERTIGHT BULKHEADS

The so-called collision bulkhead, as well as the bulkhead between the aft cabin and the lazarette shall be watertight. Routing of all cables and pipes will be executed in such a way as to maintain watertightness.

#### 2. 2. 2. LIMBER HOLES

With the exception of watertight bulkheads, limber holes of sufficient size (30 mm minimum) shall be drilled at all points where water could be retained so that it is collected in a single location, in a part of the bilges intended to house the pump strum boxes, at up to 15° of heel.

The stringers, in the lowest area, shall be provided with several limber holes.

### 2. 3. TANKS

The freshwater tanks will be made of stainless steel. They will be fitted with sufficient baffles. Access hatches will be installed in an accessible position on the inner sides of each tank.

The diesel tanks will be made of aluminium. They shall be fitted with sufficient baffles. Access hatches will be installed in an accessible position on the top of each tank.

BEP or similar gauges will be provided for each tank.

Deck fillers and vents will be of adequate diameter.

The deck fillers will be marked WATER / FUEL.

Total fresh water capacity: 1550 litres

Total fuel capacity: 2550 litres.

Grey water capacity: 2 x 100 litres

Black water capacity: 301 litres (3 tanks 155+73+73)

All tanks shall be tested. The internal pressure applied shall be 350 g/cm<sup>2</sup>.

## **2. 4. BACKING PLATES / EQUIPMENT / INCORPORATED HARDWARE ON DECK**

- Davit and eight cleats in accordance with the architect's drawings.
- Recessed stainless steel chainplates
- Deck-stepped mast (mast step on deck)
- Rail stanchion bases, pulpit, pushpit and gangways
- Backing plates for the sheet car rails, cleats, fairleads, winches, pad-eyes as indicated on the architect's deck drawing.
- Windlass backing plate
- Liferaft lockers forward of steering pedestals
- Scupper lines, flush deck hatches and locker drains

### **2. 4. 2. BELOW DECKS**

- Mast post
- Stern tube
- Propeller bracket

## **2. 5. THROUGH-HULL HOLES**

Through-hull holes will be fitted with through-hull fittings, equipped with seacocks if below the waterline.

- A through-hull fitting for the depth-sounder
- A through-hull fitting for the speedometer
- A discharge for each black water holding tank (3)
- An outlet for the main engine exhaust
- An outlet for the generator exhaust
- An outlet for the galley sink drain
- Three seawater inlets for the engine, generator and miscellaneous cooling circuits

## **2. 6. GLAZING**

Apertures will be fitted with acrylic, methacrylate or similar abrasion-resistant materials.

## **2. 7. KEEL AND BALLAST**

The standard keel will be fixed, cast iron fin and bulb, weight approx. 15,000 kg.

### 3. STEERING SYSTEM

The steering system will be chain and cable. The rudder angle shall be at least 35° on each side.

#### **3. 1. RUDDER BLADE AND STOCK**

The boat will be equipped with two rudders.

The rudders will be built of composite in accordance with the naval architect's drawings. The stocks will be aluminium.

The rudders will be mounted suspended from a JP3 type or similar bearing at the top and on a JP3 bearing or similar at the rudder stock tubes.

#### **3. 2. QUADRANT**

The quadrants will be made of aluminium. Rubber stops will be installed on each side.

The cable sheaves will be a minimum of 100 mm diameter and mounted on stainless steel ball or needle bearings.

#### **3. 3. WHEEL**

The two steering wheels will be installed on custom-built pedestals. The wheels will be carbon-fibre.

They will be 1100 mm diameter. The maximum number of turns of the wheel for an angle of 70° shall be two and a half.

#### 4. PROPULSION

##### 4. 1. ENGINE

A VOLVO D4 engine producing approximately 180 hp at 2800 revolutions per minute will be installed in accordance with the instructions of the naval architect and the manufacturer.

A VOLVO gearbox, reduction ratio: 2.78:1 will be mounted directly on the engine.

##### 4. 2. ACCESSORIES

An engine control panel will be installed in the aft cockpit on the starboard helm console. This panel will comprise:

- A VOLVO electronic single-lever throttle/gear control unit
- An engine stop switch
- A start push-button
- A tachometer
- An oil pressure gauge
- A water temperature gauge

Audible alarms will be provided for the oil pressure and the heat-exchanger and oil temperatures.

##### 4. 3. EXHAUST SYSTEM

The exhaust system will be the wet type. The water collector must be capable of holding 1/2 of the capacity of the exhaust pipe(s) between it and the hull outlet and will be fitted with a drain valve.

The water collector shall be constructed so as to avoid temporary deformation due to back-pressure (cylindrical or oval section).

A goose-neck will be provided prior to the through-hull.

##### 4. 4. BOW THRUSTER (OPTIONAL)

A SIDE POWER SR210/250 24V thruster will be installed in the forepeak. The controls will be installed on the starboard instrument console. A 24V 150 Ah battery will be installed in the forepeak. A MASTERVOLT 40Ah 24V 3S battery charger will be installed for charging the thruster batteries.

##### 4. 5. STERN THRUSTER (OPTIONAL)

A SIDE POWER SR210/250 24V thruster will be installed below the garage. The controls will be installed on the starboard instrument console. A 24V 150 Ah battery will be installed in the aft lazarette. A MASTERVOLT 40Ah 24V 3S battery charger will be installed for charging the thruster batteries.

#### **4. 6. PROPELLER**

The engine/propeller shaft alignment will be undertaken with the utmost care.

A 711 mm diameter bronze fixed three-bladed propeller will be provided by the builder.

#### **4. 7. PROPELLER SHAFT**

The propeller shaft will be made of F16PH stainless steel, 60 mm in diameter. A Hydrolube type non-metallic cutlass bearing will be installed.

#### **4. 8. PROPELLER SHAFT BRACKET**

The aluminium bronze propeller shaft bracket will be produced in accordance with the naval architect's drawings.

#### **4. 9. STERN GLAND**

The stern gland will be TIDES MARINE, Sureseal or equivalent type. The screws securing the cutlass bearing to the shaft will be fitted with locknuts.

## 5. GENERATOR

The generator will be the ONAN type, running at 1500 rpm, with a rating of approximately 17.5 kW, 220 V/50 Hz.

It will be provided with a sound shield.

The generator will be installed so as to enable easy access to all sides and removal of the insulation panels.

The generator suspension will be specially designed to eliminate the propagation of vibrations.

## 6. ACOUSTIC AND THERMAL INSULATION

Particular care will be taken in undertaking the soundproofing of the "engine room" compartment.

The acoustic insulation will be covered by a sheet of plywood coated with non-flammable (M1) white paint.

The routing of cables, pipes etc. through the engine room bulkheads will be undertaken with care to ensure maximum insulation and leaktightness.

Any equipment that can create vibrations shall be mounted on appropriate resilient suspension.



## 7. PLUMBING

### 7. 1. GENERAL

All piping will be fixed by means of suitable clips. Installation will be undertaken on the basis of dismantlable sections.

Valves will be PVC or bronze and numbered.

Protection will be installed in places where the pipes may be damaged by chafing or impact.

The installation will be tested with a pressure of 2.5 kg/cm<sup>2</sup>.

All sink, basin and shower drainage shall if possible be achieved by gravity. The drains shall all be fitted with traps and connected to the grey water tanks.

### 7. 2. FRESH WATER SYSTEM

The fresh water system will comprise a 100-litre combi water heater with an electric power rating of 1500 watts. The heat exchanger will be connected in series to the propulsion engine.

The pressurised water pump will be a XYLEM 36 l/min / 24 V or similar type hydrophore with expansion tank.

Hot and cold water will be distributed to all heads, the galley and the deck shower.

A shore connection will enable connection to the shore supply through a pressure reducer.

### 7. 3. ENGINE AND ACCESSORY COOLING

Three seawater inlets will be installed: one for the engine, one for the generator and one for other accessories.

Hull seacocks and seawater filters will be made of bronze.

The filters and systems will be fitted with zinc anodes.

### 7. 4. BILGE PUMP SYSTEM

Energy Solution 5-points bilge evacuation system with control panel in the galley.

A manual bilge pump accessible from outside will be installed.

### 7. 5. GREY WATER SYSTEM

All sink, basin and shower drainage shall if possible be achieved by gravity. The drains shall be fitted with traps and connected to the grey water tanks.

Two grey water tanks, each fitted with a HENDERSON 24V automatic pump.

Access hatches will be installed to enable regular cleaning.

### 7. 6. BLACK WATER SYSTEM

Electric toilets in the cabins will be TECMA "Silence" model or equivalent type.

Black water will be discharged to the sea or into a black water holding tank.

3 tanks are installed above the waterline enabling them to drain by gravity.

### **7. 7. FUEL SYSTEM**

Pipework will be approved flexible hose.

A RACCOR 500 MAM 227 l/hour filter shall be installed between the tanks and the propulsion engine.

A RACCOR 120 AP 57 l/hour filter shall be installed between the tanks and the generator.

Valves will be installed so as to permit the separate use of the tanks.

### **7. 8. FIRE SAFETY**

2 powder extinguishers will be located in the engine room in accordance with the regulations in force. A remote control for triggering the extinguishers will be installed in the saloon.

### **7. 9. REFRIGERATION**

#### **7. 9. 1. FRIDGE/FREEZER**

A combined fridge/freezer cabinet with a capacity of approximately 224 l for refrigeration and 57 l for freezing.

### **7. 10. AIR CONDITIONING (OPTIONAL)**

A DOMETIC water-cooled reversible air-conditioning unit rated at 72,000 Btu will be connected to the unit heaters in the various compartments.

### **7. 11. HYDRAULIC SYSTEM**

The aft platform will be operated by two hydraulic cylinders and a 24V hydraulic pump.

### **7. 12. VENTILATION.**

A GIANNESCHI or similar 24V 2-speed extractor will be installed for engine room ventilation.

An air inlet will be fitted.

## 8. ELECTRICAL INSTALLATION

### 8. 1. GENERAL

A 3-wire 220 volt 50 Hz circuit will be installed. It will be supplied from the shore, by the generator or by the inverter.

A 24V "domestic" circuit for lighting and ancillary equipment will be installed.

### 8. 2. CABLES

Electric cables will type HO7 RNF.

The cables will be installed so as to prevent wear by chafing and in accordance with best practice. The cable section will be specially selected to prevent voltage drop.

The DC circuit will have two conductors with junction boxes.

The electrical system will correspond to the equipment described in these specifications.

A sufficient number of circuits will be installed so as to reduce the current passing through each of them and facilitate the location of any leakage.

A cable gland or electric cable connection sockets will be installed at the mast step inside the boat.

### 8. 3. ANODES

The necessary zinc anodes will be installed.

A propeller shaft zinc anode will be installed.

A zinc anode will be installed in the bow thruster housing.

### 8. 4. CHARGER / INVERTER

Two MASTERVOLT 60 Ah 24 V battery chargers will be installed in the engine room for charging the "service" batteries. They will be equipped with a charging control panel with a load-adjusting rheostat and a charging indicator light.

An 80 Ah 24/28 volt VOLVO alternator or equivalent driven by the main engine will be used to charge the service batteries.

A MASTERVOLT 24/220 volt 2500 watt inverter will be installed to supply the on-board 220 volt circuit.

### 8. 5. BATTERIES

Gel type batteries will be installed between the floor timbers in accordance with the builder's plans.

- 1 x 24 V 840 Ah service battery

- 1 OPTIMA 24V/48 Ah engine and generator starter battery coupled with the service battery.

## **8. 6. LIGHTING AND SOCKETS**

The ceilings will be fitted with 24V halogen spotlights.

LED strips will be recessed below the facades of furniture and companionway risers. Every wardrobe and every large locker will be equipped with automatic internal lighting.

Lighting will be installed in the aft lazarettes.

Lighting will be installed in the garage.

Lighting will be installed in the forepeak.

Position of 220 V sockets:

- a 220 V shaver type socket in each heads compartment with very high sensitivity protection.
- an earthed socket in each technical compartment
- seven earthed sockets in the galley (3 double and 1 single)
- two sockets in the owner's cabin
- one socket in each cabin
- one socket in each bathroom
- one socket in the vicinity of the chart table
- two sockets in the saloon

## **8. 7. ELECTRICAL PANEL**

An electrical panel will be installed in the galley.

A sufficient number of circuits will be installed so as to reduce the current passing through each of them and facilitate the location of any leakage.

Circuit breakers shall be of a rating calculated for satisfactory protection of the circuits but without risk of tripping when the circuit is at its normal maximum load and there is a high ambient temperature.

All circuit breakers and switches shall be clearly identified by etching of the panel.

## **8. 8. NAVIGATION LIGHTS.**

They will be Lopolight brand or similar type, complying with the international navigation rules.

## **8. 9. DECK LIGHTING**

Lighting with two deck lights will be installed on the mast so as to illuminate the deck in its entirety.

Three lights will be recessed below the boom, above the cockpit.

#### **8. 10. SHORE POWER SUPPLY**

A HUBBELL brand 50 A socket will be installed for connection to the shore power supply.

A Zinc Saver will be installed for anodic protection in port.

#### **8. 11. LIGHTNING PROTECTION**

A static electricity dissipator will be installed at the masthead and will be electrically connected to it.

A lightning rod will be installed at the masthead.

9. ELECTRONICS AND NAVIGATION EQUIPMENT

**9. 1. NAVIGATION INSTRUMENTS**

1 magnetic compass on each helm console

1 engine control panel and gear and throttle control on starboard helm console.

**9. 2. COMMUNICATION INSTRUMENTS**

Optional

## 10. INTERIOR FITTINGS / DECORATION

### 10. 1. GENERAL

The general layout will be as shown on the plans drawn by the architect.

3 wood and fabric finishes to choose from.

### 10. 2. INTERIOR UPHOLSTERY

All fabrics and carpets will be selected from the boatyard catalogues and will be subject to approval by the owner.

The upholstery will include:

1/ For each cabin:

- 1 mattress per berth
- 1 set of fabric head linings
- Fabric hull linings
- Tops of low furniture units in Pierre Frey leatherette

2/ For the saloon:

- 1 Set of fabric cushions for the sofa and the dining table settee.
- 1 set of fabric head linings
- Tops of low furniture units and chart table in Pierre Frey leatherette
- Chart table seat covered in Pierre Frey leatherette

### 10. 3. EXTERIOR UPHOLSTERY

Optional

### 10. 4. SOLES

Wherever possible, the soles will be divided into opening panels.

A fixed 5 cm frame will be provided around the bulkheads and fixed furniture to facilitate opening of the panels and prevent them from rubbing on the bulkheads.

The visible face of the sole will be made of a high-strength resin-impregnated timber.

### 10. 5. SALOON

The saloon situated beneath the deckhouse comprises the navigation station, a sofa bed and a lounge/dining area.

The light-filled saloon provides a magnificent panoramic view of the surroundings.

Direct and indirect lighting with reading lights and ceiling lights.

Night lighting for use at night. 230 V sockets.

Plentiful stowage behind the seat backs and along the outboard shelving.

**Navigation station (starboard)**

- Chart tables with chart stowage and pencil tray.
- 12 V & 230 V sockets.
- Space for navigation instruments, library.
- Space for an audio system.

**Lounge area (starboard)**

- Sofa to starboard, easily convertible into two comfortable facing armchairs.
- Retractable bar behind the sofa.
- Cabinet to house an ice-maker (optional).

**Dining area (port)**

- Large U-shaped settee.
- Dining /cocktail table capable of accommodating 8 people.
- Alcove to hang a picture with lighting; capable of accommodating the optional retractable TV.

**10. 6. GALLEY**

The galley is located aft on the starboard side, five steps down from the saloon, well separated from the saloon and the forward cabins. The galley incorporates high-quality equipment dedicated to yachts.

Access to the cockpit through a sliding hatch and a retractable ladder incorporated into the deckhead.

Ventilation and natural light by means of a fixed porthole in the hull, two opening ports and an opening hatch leading to the cockpit.

Direct and indirect lighting of work surfaces.

Functional U layout with breakfast bar and two stools.

Galley equipment will include:

- 1 set of high lockers in lacquered wood
- 1 set of mid-height lockers in lacquered wood
- 1 set of low lockers in lacquered wood
- 1 CORIAN worktop
- A galley safety strap for cooking while heeled,
- 1 extractor hood
- 1 fridge (224 l) / freezer (57 l) cabinet

Galley domestic appliances will include:

- 1 stainless steel sink with HANSGROHE or similar mixer tap



- 1 Microwave oven connected to the inverter
- 1 MIELE stove with 4-zone induction hob + electric oven mounted on gimbals
- Cabinet to house a Miele dishwasher (optional),
- Cabinet to house a 5 kg capacity Miele washer/dryer (optional),
- Cabinet to house a waste compactor (optional),
- Cabinet to house a Webasto wine cellar (optional),
- Cabinet to house an additional Webasto refrigerator or freezer (optional).

The lighting will consist of deckhead and indirect lighting.

A retractable telescopic ladder in the deckhead enables direct access to the cockpit via a deck hatch.

A watertight panel located beneath the saloon access companionway provides access to the engine room.

## **10. 7. OWNER'S CABIN**

- The owner's cabin is located forward and occupies the entire width of the hull.
- Ventilation and light are provided by 3 fixed portholes in the hull and three opening deck hatches.
- General lighting and reading lights on the headboard.
- Double bed, 2.05 m x 1.60 m.
- Storage lockers and drawers beneath the bed.
- Bookcase and cupboards on the forward bulkhead with a recess to accommodate the television.
- A hanging locker to starboard.
- A cabinet to port.
- Low cupboards to port and starboard.
- A small office area to starboard.
- 230 V sockets.
- The owner's cabin has a fully private bathroom:
  - A separate shower stall with grating,
  - Ventilation and light are provided by a fixed porthole in the hull and an opening deck hatch.
  - Lighting by means of deckhead light, secondary lighting in front of the mirror,
  - Shower and washbasin automatic pump-out to grey water manifold,
  - TECMA Silence model (or similar) electric freshwater marine toilet with black water holding tank,

- Vanity unit with hot and cold water,
- Bathroom cabinet with electric shaver socket,
- Electrically heated towel rail,
- Mirror, wall-mounted toilet paper dispenser.

#### **10. 8. PORT GUEST CABIN**

- Double bed against side of cabin to port, 2.05 m x 1.60 m, with a system for separation into two single beds.
- Storage lockers and drawers beneath the bed.
- Ventilation and light are provided by a fixed porthole in the hull and an opening deck hatch.
- General lighting and reading lights on the headboard.
- A hanging locker to port.
- Cupboards.
- 230 V sockets.
- The port guest cabin has a fully private bathroom:
  - A separate shower stall with grating,
  - An opening deck hatch for light and ventilation,
  - Lighting by means of deckhead light, secondary lighting in front of the mirror,
  - Shower and washbasin automatic pump-out to grey water manifold,
  - TECMA Silence model (or similar) electric freshwater marine toilet with black water holding tank,
  - Vanity unit with hot and cold water,
  - Bathroom cabinet with electric shaver socket,
  - Mirror, wall-mounted toilet paper dispenser.

#### **10. 9. STARBOARD GUEST CABIN**

- Two bunk beds to starboard, 2.05 m long.
  - The bottom bed is convertible into a double bed, 2.05 m x 1.40 m.
  - Storage lockers and drawers beneath the bed.
- Ventilation and light are provided by a fixed porthole in the hull and an opening deck hatch.
- General lighting and reading lights on the headboard.
  - A hanging locker to starboard.
  - 230 V sockets.
  - The starboard guest cabin has a private bathroom with a second door onto the

passageway for daytime access to the toilet:

- A shower stall with grating,
- An opening deck hatch for light and ventilation,
- Lighting by means of deckhead light, secondary lighting in front of the mirror,
- Shower and washbasin automatic pump-out to grey water manifold,
- TECMA (or similar) electric freshwater marine toilet with black water holding tank,
- Vanity unit with hot and cold water,
- Bathroom cabinet with electric shaver socket,
- Mirror, wall-mounted toilet paper dispenser.

#### **10. 10. PORT AFT GUEST CABIN**

- Two single beds, 2.00 m long. Convertible into a double bed.
- Ventilation and natural light are provided by a fixed porthole in the hull, two opening ports and an opening hatch leading to the cockpit.
- General lighting and reading lights on the headboard.
- Storage lockers and drawers beneath the bed.
- A hanging locker to port.
- Cupboards.
- 230 V sockets.
- The port aft guest cabin has a fully private bathroom:
  - A separate shower stall with grating,
  - Electric ventilation,
  - Lighting by means of deckhead light, secondary lighting in front of the mirror,
  - Shower and washbasin automatic pump-out to grey water manifold,
  - TECMA Silence model (or similar) electric freshwater marine toilet with black water holding tank,
  - Vanity unit with hot and cold water,
  - Bathroom cabinet with electric shaver socket,
  - Mirror, wall-mounted toilet paper dispenser.

#### **10. 11. HARDWARE**

All drawers will be on telescopic slides.

Retaining magnets and stops will be installed for each of the interior doors. The deck hatches will be equipped with interior and exterior opening system and a locking system.

## **10. 12. AUDIO-VISUAL EQUIPMENT**

Optional

## **10. 13. BATHROOM EQUIPMENT**

Each bathroom will be equipped with:

- 1 low cabinet
- 1 TECMA Silence model electrical toilet
- 1 CORIAN vanity unit top
- 1 high or low wooden cabinet with mirrors
- 1 washbasin mixer tap
- 1 shower mixer tap with shower head and soap dish
- 1 towel rail
- 2 hooks
- 1 toilet paper dispenser
- 2 cupholders

The owner's bathroom will be equipped with an electrically heated towel rail.

## **10. 14. FOREPEAK**

A stainless steel ladder will be installed.

- Lighting
- Handrail
- Tubes for hanging lines and running rigging
- Access to the chain locker

The forepeak can be fitted out as a crew cabin with toilet, shower and washbasin and 2 bunks to port. (Optional)

## 11. TEAK DECK

The deck will be covered with Burma teak slats, 46 mm visible width and 8 mm thick.

The 5 mm width visible seams will be black, executed with 3M 354 or equivalent silicone. The screws will be plugged. The king plank nibs will be straight.

The king plank width will decrease from the centre to the ends.

## 12. DECK FITTINGS

### 12. 1. GENERAL

All equipment will be mounted on a bed of polyurethane mastic or equivalent.

### 12. 2. WINCHES

HARKEN (with master switch)

1 x 2-speed 70.2 electric winch for the mainsheet (70.3 as an option)

1 x 70.2 manual winch for staysail sheet and running backstays (70.2 electric as an option)

2 x 80.2 manual winches for genoa sheets (80.2 electric or 80.3 electric as an option)

1 x 2-speed 70.2 electric winch for mainsail halyard at foot of mast (70.3 as an option)

1 x 70.2 manual winch for mainsail reefs and outhaul at foot of mast (70.2 electric as an option)

Optional:

1 x 70.2 manual winch for spinnaker halyard at foot of mast (70.3 electric as an option)

1 x 70.2 manual winch for spinnaker running rigging at foot of mast

### 12. 3. BLOCKS, CARS AND TRACKS

HARKEN or similar

### 12. 4. HARDWARE

Track for self-tacking jib or staysail.

2 padeyes for tidying halyard tails

2 bow cleats

2 midships cleats

2 stern cleats

2 stern fairleads

1 deck shower in the flipper and mask stowage locker

2 compass binnacles

1 ensign staff

Hydraulic door on transom forming bathing platform with teak.

Access stairs automatically deployed on opening of the above

Bathing ladder incorporated into the platform.

Two handrails, one on either side of the bathing ladder.

At points where water on deck would tend to stagnate, 4 x 45 mm internal diameter scuppers will be connected to the hull at the waterline.

## **12. 5. ANCHORING SYSTEM**

A Lewmar or similar electric windlass, for 14 mm chain, will be installed beneath the deck in the anchor locker.

A fixed stainless steel anchor davit will be installed to starboard.

1 x 100 m 24 mm diameter 8-strand black polyamide anchor warp

100 m 14 mm calibrated chain, galvanised

1 x 55 kg DELTA anchor, galvanised

## **12. 6. PORTHOLES / DECK HATCHES**

10 Lewmar brand flush deck hatches will be installed and sized as shown on the final layout drawing and deck plan.

2 Lewmar brand flush deck hatches will be installed for access to the galley and the port aft cabin.

1 teak deck hatch, 80x80, for access to the sail locker.

2 teak deck hatches for access to the aft lazarettes.

1 teak deck hatch for access to the garage.

2 teak deck hatches for access to the liferafts.

Deck hatch coamings will be of composite and fitted with sliding mosquito screens and opaque blinds, incorporated into the deckhead.

## **12. 7. LIFELINES, PULPIT AND PUSHBIT**

Lifelines, pulpit and pushbit will be installed around the deck; the diameter of the stainless steel tubes will be 33 mm. The pulpit, pushbit and stanchions will be bright-polished.

The height of the upper lifeline will be 74 cm above the deck and it will be 5 mm diameter single-strand stainless steel.

On each side of the cockpit, an 80 cm wide gangway will be provided. The stanchions on each side of these gates will be reinforced.

An access gate to the aft platform will also be provided in the stern rail.

## **12. 8. COCKPIT TABLE**

A fixed cockpit table, in plain teak, will be installed on two stainless steel columns. (Folding and retractable on electrically operated struts as an option)

## **12. 9. GARAGE**

The garage will be self-draining.

An electric strap capstan, with remote control, will be installed at the forward end to haul the tender.

White polyethylene plates will be provided for protection of the deck while hauling.

A watertight hatch enables access to the stern thruster when this option is chosen.

On the starboard side a stowage locker for fins and masks will be installed.

Possible tenders in the garage:

Williams Turbojet 385

AER Cabrio CH380 with 30 or 40 hp outboard engine

Tenders with fixed transom, 3.50m maximum

## **12. 10. AFT LAZARETTES**

Two enormous lockers to port and starboard, accessible by two deck hatches, enable access to the steering gear and provide a very large stowage space.



## 13. SPARS AND RIGGING

### 13. 1. SPARS

The spars and rigging will be produced in accordance with the drawings of the naval architect and the mast manufacturer.

The standing rigging will be semi-fractional rod rigging.

Spars will be painted as chosen by the customer, with the option of clear coat varnish in the case of the carbon mast option.

#### 13. 1. 1. MAST

The mast will be made of aluminium with 3 sets of spreaders. The mast will be fitted with:

- Internal mainsail halyard sheave
- Internal boom topping lift sheave (boom topping lift can be used as emergency halyard)
- An internal genoa halyard sheave
- Mast exits with stainless steel anti-chafe pads for halyards, topping lifts and miscellaneous running rigging.
- Integrated sheaves for a flag halyard on each lower spreader
- 1 deck light on the forward face + 2 work lights beneath lower set of spreaders
- Four steps on the lower part of the mast
- WINDEX wind vane
- Cables and supports for aerials optional according to the equipment selected.
- Gooseneck fitting, bolted in the case of aluminium mast
- Boom vang fitting, bolted in the case of aluminium mast
- All electric cables must be routed through a duct
- Genoa and staysail halyards on hydraulic cylinders. Hydraulic hand pump in the cockpit.
- Mast jack
- Jammers for textile halyards for stowage only

#### 13. 1. 2. BOOM (E =9.60 METRES)

The standard boom will be made of aluminium and will be fitted with automatic reefs 1 and 2, conventional reef 3:

- Aluminium track and outhaul car
- Gooseneck fitting, welded

- Vang fitting
- Attachment for 1 sheet block + attachment for preventer
- Fittings for two automatic reefs + 1 manual reef
- Fittings for 4-point lazyjack with control line
- Topping lift attachment point
- Three built-in lights

### **13. 2. SPINNAKER POLE**

Optional

### **13. 3. STANDING RIGGING**

The standing rigging will be Nitronic 50 rod with Kevlar running backstay.

Manual furler for the genoa, FACNOR brand or similar. (Hydraulic as an option)

### **13. 4. RIGGING HYDRAULICS**

The NAVTEC rigging hydraulics will comprise:

- 1 hydraulic cylinder for mainsail vang
- 2 backstay cylinders with mechanical locking as an option
- 2 backstay cylinder foot universal joints
- 1 x 3-5 function control panel depending on rigging options chosen with 2-speed pump
- 1 x 2-gallon oil reservoir
- 3 through-deck fittings
- 1 crank lever pocket
- 1 pump handle
- 1 genoa halyard cylinder
- 1 staysail halyard cylinder and 1 threaded clevis eye (optional)

### **13. 5. RUNNING RIGGING**

Textile parts will be LANCELIN brand or similar.

The length of the sheets, running backstays, halyards, etc. will be sufficient to permit operation in accordance with best practice.

1 Mainsail halyard with Dyneema® core

1 Boom topping lift with Dyneema® core

1 Genoa halyard with Dyneema® core

1 x 2-strand 14 mm diameter mainsheet with Dyneema® core

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2 x 18 mm diameter genoa sheets with Dyneema® core

2 running backstays 14 mm diameter Dyneema core + 14 mm diameter CUP

1 x 16 mm mainsail footrope with Dyneema® core

2 x 30 m 4 mm diameter braided polyester flag halyards

9 Speedlink quick-release snap shackles

## 14. SAILS/SPRAYHOODS/COVERS/AWNINGS

### 14. 1. SAILS

Optional

### 14. 2. SPRAYHOODS

A fabric sprayhood on folding stainless steel tubes incorporated into the coachroof, will shelter the main companionway.

### 14. 3. COVERS (OPTIONAL)

Covers for cockpit table, steering wheels, helm consoles and winches, garage screen.

### 14. 4. COCKPIT BIMINI (OPTIONAL)

Fabric Bimini cover on folding stainless steel tubes incorporated into the coachroof and fabric section connecting to the sprayhood.

15. SAFETY EQUIPMENT

Optional

## 16. HULL/ SUPERSTRUCTURE PAINT

### 16. 1. EXTERIOR

A white gelcoat will be used for the hull top side, hull bottom and superstructure.

### 16. 2. ANTIFOULING

1 coat of primer and 2 coats of antifouling will be applied to the hull bottom.

### 16. 3. INTERIOR

Refer to samples

### 16. 4. BILGES

The engine room, the aft lazarette and the deck lockers will be painted with the grey Top Coat system or equivalent.

