

» TECHNICAL SPECIFICATIONS

46

 GRAND SOLEIL



# » SAIL AREA

J	5,365 m
P	17.426 m
E	6.140 m
Main sail	64 m <sup>2</sup>
Handy 105%	54 m <sup>2</sup>
Sail Area	118 m <sup>2</sup>



# » SPECIFICATIONS

Length overall	14,08 m
Waterline Length	12,35 m
Beam max	4,31 m
Draft	1,95/2,20/2,55/2,85 m
Displacement	10.250 Kg
Ballast	3.500 Kg
Berths	6/10
Fuel tank	250 lt approx
Water tank	450 lt approx
Engine	Volvo 55 hp

Designer	Botin & Carkeek
Exterior designer	Attivo Design
Interior designer	Patrick Roseo
Builder	Cantiere del Pardo
Certification	CE IMCI Classe A

# » CONSTRUCTION

## 1.1 HULL

- Hull and deck built in vinylester sandwich construction with glass biaxial and unidirectional fabrics
- The infusion technique is used to maximise rigidity and minimise weight.
- Core (AIREX) of different densities according to stress area is vacuum bonded.
- Further reinforcements are positioned in high stress areas.
- Use of solid laminate around keel, rudder and through hull fittings for maximum strength.
- Hull and deck are bonded together using a structural acrylic glue derived from the aircraft industry.

## 1.2 DECK

- The internal grid, made of carbon fibre compound, is built with the infusion technique and bonded to the hull using a structural acrylic glue derived from the aircraft industry. The grid absorbs the load from keel, mast and shroud.
- The deck area near the mast is reinforced and the core of the sandwich is made of marine plywood.
- Transom laminate with UD to maximise rigidity.
- Bulwark integrated with the hull laminate to guarantee greater torsional rigidity, with brass reinforcements for stanchions, pulpits and deck equipment.





## 1.3 KEEL

- The T-shaped keel guarantees high performance and stability.
- The keel and fin are just one piece with a fusion of lead and antimony.
- The keel is coupled to the hull by means of a steel plate recessed to the hull to minimize friction and to reduce local loads.
- The internal grid of the keel is made of steel and extends all along the blade until the torpedo-shaped keel to guarantee maximum strength.
- Epoxy products are applied on the surface of the bulb keel

## 1.4 RUDDER

- The rudder is balanced and made of high-density expanded material.
- The rudder axis is in stainless steel 17-4 PH.
- The steering wheel, the quadrant and the pulleys are Solimar.
- The two Solimar steering wheels are in leather-covered steel with 900 mm diameter.
- Emergency tiller

## 1.5 CHAIN PLATES

- The central chain plates are recessed to the hull, fixed to the bulwark and are joined to the boat's internal structure.
- The aft chain plates are internally laminated to the hull and recessed.

# » MAST SHROUDS AND SAILS

## 1.6 MASTING

- Sparcraft aluminium mast, tapered at the head with double spreader rig
- Mast
- Sparcraft aluminium boom
- Rigid boom vang
- Stainless steel rope rigging.
- Facnor underdeck manual recessed furling unit
- Spectra halyards
- Harken blocks, tracks and hardware
- Harken splitted backstay chain plate with mechanical adjuster.
- Dacron North Sails



# » INTERIOR

The standard interior joinery is stained mahogany which has been treated with polyurethane and then buffed to shine. The interior boasts an excellent calibre of finishing throughout. The owner can also choose light Oak or teak wooden essence. The flooring is in 15 mm thick wood, and reflects the essence chosen by the owner. The solid colour fabrics and materials used have been chosen with a special care.

## 2.1 OWNER CABIN

- Double bed with storage underneath
- Side lockers around
- Double-door cabinet with hangers and shelves
- 2 reading spots
- 12V plugs
- Supply and assembly of 2 Ocean Air screens and shades
- 2 flush hull portholes to improve the fluid dynamics

## 2.2 OWNER HEAD

- Marine toilet
- Wash basin (Corian type optional)
- Shower compartment separated
- Mirror
- Bathroom cabinet
- Sensor-equipped electric pump to drain the shower bilge automatically or manually
- Supply and assembly of 1 Ocean Air screen and shade



## 2.3 MAIN SALOON

- Wide, light and airy saloon
- "C" shaped dining area with large table
- Large pouf seat in the middle on recessed guides below the flooring
- Wide sofa on starboard side
- Sliding table on tracks for easier access to seats
- Stowage rack and numerous side lockers
- 2 flush Solimar hatches.
- Flush hull portholes to improve the fluid dynamics.
- Supply and assembly of 2 Ocean Air screens and shades



## 2.4 NAVIGATION STATION

- Large lifting top chart table with storage space for nautical charts and cabinet.
- Built-in solid wood hand rail.
- Large electronic instruments panel.
- 12V plugs.
- 220V plug.
- Chart LED light.
- Navigation seat.
- Main electric control panel for 220V and 12V sections.



## 2.5 GALLEY

- Built-in solid wood hand rail.
- Double stainless steel sink and draining board.
- Wooden work top (Resin optional).
- Under-pressure hot and cold fresh water.
- Hinged door with rubbish bin for waste separation.
- 2 burners gas stove with oven.
- Top access fridge compartment with baskets.
- Compartment for freezer (optional).
- Drawers for food storage.
- Numerous lockers above the work top.
- 220V plug.

## 2.7 PORT AND STARBOARD AFT CABINS

- Double bed with storage underneath.
- Double-door cabinet with hangers, shelves, shoe compartment and seat.
- Shelf and 2 cabinets at bedside.
- Flush hull porthole glued to improve the fluid dynamics.
- Ventilation and light is provided by 2 large opening port holes.
- 2 wide accesses to the engine and technical compartment for inspection.
- 12V plugs.
- 2 reading spots
- Ceiling lights.
- Supply and assembly of 2 Ocean Air screen and shade.

## 2.6 STARBOARD AFT HEAD

- Marine toilet.
- Wash basin with removable shower head (Corian type optional)
- Oilskin locker.
- Mirror.
- Bathroom cabinet.
- Sensor-equipped electric pump to drain the shower bilge automatically or manually

# » DECK EQUIPMENT

## 3.1 MOORING CLEATS

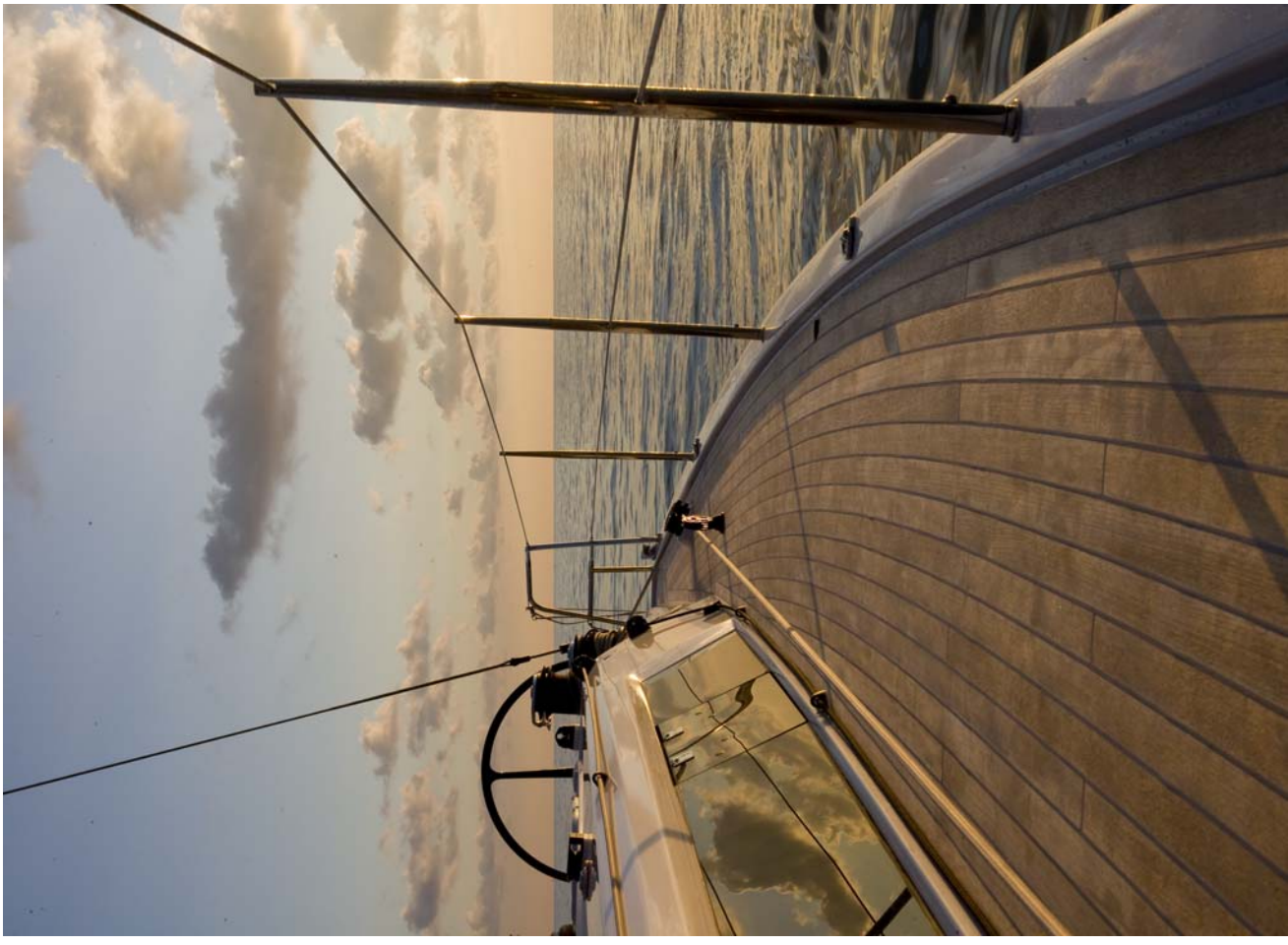
- 4 mooring cleats with stainless steel protection on hull side

## 3.2 HATCHES AND PORTHOLE

- 2 flush Solimar hatches in front cabin
- 1 flush Solimar hatch in front cabin
- 2 flush Solimar hatch above saloon
- 4 Lewmar portholes for aft cabins
- 4 Solimar flush portholes mounted on the side of the coach roof
- 8 fixed hull windows mounted flush to reduce friction

## 3.3 LOCKERS

- Self draining anchor locker with piston
- 2 lockers under the cockpit seats
- Lockers in aft zone for stowage of sails, life rafts and 2 gas bottles



### 3.4 WINCHES

- 2 x 46.2 STC winches for main, genoa halyards, reefing lines and clew out hole
- 2 x 50.2 STC Radial Harken winches for genoa sheets
- 2 Harken handles with retainer

### 3.5 ANCHOR WINDLASS AND STEMHEAD

- Quick 1000 W Anchor windlass winch
- Electrowelded stainless steel anchor stemhead
- Steel rope for anchor with Teflon bushes

### 3.6 PULPITS AND STANCHIONS

- 25mm diameter stainless steel stanchions for 2mm chart
- 5 mm stainless steel cable guardrails with turnbuckles
- Open bow pulpit with built-in navigation LED support
- Split stern pulpit with built-in navigation LED support

### 3.7 DECK FINISHES

- Seats, cockpit floor and sun deck clad in 8 mm vacuum-bonded teak
- Manually openable platform clad in 8 mm vacuum-bonded teak
- Gangways and coachroof clad white non-skid
- Supply and assembly of 2 teak coachroof handrails
- Supply and assembly of 2 stainless steel hand rails at the sides of the entrance
- Recessed spray hood garage.
- Spinlock clutches for all standard halyards and reefing lines
- All halyards and reefing lines are leaded back to the cockpit under the deck
- Self draining cockpit
- Hot and cold shower on aft deck
- Engine control lever on starboard side
- Accommodation for electronics on aft side of each cockpit seat

# » MOTORISATION

## 4.1 ENGINE

- Volvo D2 55 hp diesel with S-drive (Volvo 75 hp optional).
- Separate bilge for engine.
- Alternator for batteries.

## 4.2 EQUIPMENT ROOM

- Engine room insulation made of flameproof material chosen for both heat insulation and sound deadening
- Engine room with storage for generator
- Warm air aspiration

## 4.3 FUEL TANK

- The tanks are in stainless steel
- 250 lt fuel tank
- Electronic level indicator to inspect floater from cockpit
- Copper engine feed pipe
- Easy-to-access fuel filter





# ELECTRICAL EQUIPMENT

- The main electrical system of the board is 12 V

## 5.1 BATTERIES

- 3x100 Ah / 12V AGM batteries for service
- 1x76 Ah / 12V AGM battery for engine starter
- Mastervolt 60 A/h battery charger

## 5.3 LIGHTING

- Halogen and incandescent lamps ensure adequate lighting for all the interior
- Navigation, anchor, running, deck, compass and instruments lights
- Starboard and port LED lights (green and red)
- White LED stern light

## 5.2 ELECTRIC CONTROL PANEL

- Electric control panel with cut-out switches, voltmeter, ampere meter showing service consumption, battery charging rate ampere meter
- 220V section with shore power and predisposition for automatic battery charger
- All wiring and cables are passing in special internal channel tubes and relative deviation boxes for ease of exchange of wiring
- 12V sockets in the galley, chart table, owner, vip and guest cabins





# » PLUMBING SYSTEM



## 6.1 FRESH WATER TANKS

- 2 rigid polyethylene water tanks with an approx capacity of 450 lt. complete with inspection covers and anti-surge baffles
- The tanks are located below the beds in the aft cabins

## 6.3 BOILER

- 25 lt boiler with shore 220V electric resistance
- Operating through heat exchanger system with the engine (cooling circuit)

## 6.2 PUMPS

- 2 automatic electric pumps for aft and head showers
- Automatic electric pump for emptying the sail locker
- Automatic electric pump for main bilge
- Hand operated cockpit bilge pump
- Autoclave pump for hot and cold fresh water

## 6.4 PIPING AND SEACOCKS

- The seacocks are mounted flush on the hull to minimise friction
- Seacocks are easily accessible and have a bronze quick closing ball valve
- Piping of hot and cold drinking in odourless PVC
- All piping for drains and bilge pumps have special reinforced rubber

#### NOTE

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