

## GRAND SOLEIL 39'

### STANDARD SPECIFICATION

LOA: 11.82  
LWL: 10.40  
Beam: 3.70m  
Draft: 2.10 - 2.40m  
Displacement: 7350 kg  
Ballast: 2,450 kg  
Berths: 6 – 8

#### SAIL AREA

J= 4.40m  
P= 14.80 m  
E= 5.20 m  
Main sail= 49.6m<sup>2</sup>  
Jib 106%= 38.2m<sup>2</sup>  
Total Sail Area= 87.8 m<sup>2</sup>

#### CERTIFICATION

CE IMCI Class A Ocean



### CONSTRUCTION

#### 1.1 Hull

The hull is constructed from high quality GRP with glass biaxial and unidirectional fabrics. Further uni-directional reinforcements are positioned in high stress areas for maximum strength. Hull and deck are bonded together using structural acrylic glue and mechanically bolted. The internal grid, made of carbon fibre reinforced GRP, is bonded to the hull using a structural acrylic glue and GRP laminates. The grid absorbs the load from keel, mast and shrouds. The deck area near the mast is reinforced and the core of the sandwich is made of marine plywood. Transom laminate reinforced with uni-directional laminates to maximise rigidity. The Bulwark is equipped with internal bronze reinforcements for stanchions, pulpits and deck equipment.

#### 1.2 Deck

The deck is of GRP Sandwich construction with a Termanto high density foam core. Bronze inserts are bonded into the deck laminate as backing plates for the deck gear.

#### 1.3 Keel

The "T" shape keel provides both high performance and tremendous stability.

Draft of 2.40m. (Optional shoal keel of 2.00m)

The keel fin is of cast steel and has a top flange that is recessed into the hull moulding, dissipating keel loads over a very wide area. The lead bulb is a torpedo shape, cast in one piece with a fusion of lead and antimony.

Epoxy coatings are applied to the surface of the keel.

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#### Key Yachting Ltd.

1 Mariners House, High Street, Hamble, Southampton SO31 4JF

Tel: 023 8045 5669 – Fax: 023 8045 5770 – Email: [info@keyyachting.com](mailto:info@keyyachting.com) – Web: [www.keyyachting.com](http://www.keyyachting.com)

Company Reg. No. 03396623 – VAT Reg. No. GB 679 5362 81

#### **1.4 Rudder**

The rudder is balanced and made of high-density expanded material.

The rudder stock is made from stainless steel, grade AISI 630.

The steering wheels, the quadrant and the pulleys are by Solimar.

The two Solimar steering wheels are in leather-covered stainless steel with 900 mm diameter.

Emergency tiller

#### **1.5 Chain plates**

The shroud chain plates are recessed into the hull on the sheer line.

The forestay and backstay chain plates are internally laminated to the hull and recessed.

#### **1.6 MAST, RIGGING AND SAILS**

Sparcraft aluminium mast, tapered at the head with double spreaders.

Sparcraft aluminium boom, with internal outhaul and reef lines.

Rigid boom vang

Stainless steel wire standing rigging.

Furlex TD through deck jib furling system manually operated.

Spectra main and jib halyards.

Harken blocks, tracks and hardware

Split backstay system with 2 chain plates and a Harken mechanical adjuster.

Dacron North Sails main and furling Jib



### **INTERIOR**

The standard interior joinery is stained mahogany which has been treated with polyurethane and then buffed to a shine. The interior boasts an excellent calibre of finish throughout. The owner can choose, for an additional sum, light Oak or Teak joinery. The flooring is 15 mm thick and matches the joinery 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 2 storage drawers underneath.

Shelves along hull sides.

2 x Double-door wardrobes with hanging rails and shelves.

2 x reading lights

12v and 220 v sockets

Optional head and shower compartment within the owners cabin

#### **2.2 Main Saloon**

Wide, light and airy saloon

Spacious "L" shaped dining area with large folding table.

Wide sofa on starboard side

Stowage rack and numerous side lockers

2 Flush hatches with blinds

4 Flush mounted hull windows.

#### **2.3 Navigation Station**

Lifting top chart table, with storage space for charts.

Large instrument panel.

12V and 220v sockets.

LED chart light

Navigation seat, with internal space for stowage.

Main electric control panels for 220V and 12V sections.

## 2.4 Galley

Portside L shape galley.  
Double stainless steel sinks. Wooden work top, corian style optional.  
Pressurised hot and cold fresh water.  
Hinged cupboard door with rubbish bin.  
2 burner gas stove with oven.  
Top access fridge compartment with baskets and 12v compressor.  
5 Drawers with amortised closure mechanism.  
Lockers above the work top including plate racks.  
12V and 220V Sockets.



## 2.5 Aft Head

Marine toilet.  
Pressurised hot and cold fresh water wash basin with removable shower head.  
Mirror.  
Bathroom cabinet.  
Electric pump to drain the shower bilge automatically or manually.



## 2.6 Port and Starboard Aft Cabins

Double bed with storage underneath.  
Cabinet with hangers, shelves, shoe compartment and seat.  
Shelves on hull sides.  
Ventilation and light is provided by 1 large opening and 1 fixed port lights  
Stowage niche hear engine compartment.  
2 wide access hatches to the engine and technical compartment for inspection.  
2 reading spots  
Ceiling lights.  
12V and 220V Sockets.

## DECK EQUIPMENT

### 3.1 Mooring cleats

4 mooring cleats with stainless steel anti-chafe protection on hull sides

### 3.2 Hatches and Portlights

3 flush hatches in forward cabin.  
2 flush hatches above saloon.  
2 opening and 2 fixed portholes for aft cabins.  
2 flush portholes mounted on the coachroof side windows.  
4 fixed hull windows mounted flush to reduce friction.

### **3.3 Lockers**

Self draining anchor locker, with gas strut to hold lid open. Self contained gas bottle locker within the anchor locker

2 lockers under the cockpit seats, the port one is dedicated for a liferaft

Locker in aft deck for stowage of sails, fenders etc

### **3.4 Winches and deck gear**

2 x 40.2 STA Radial winches for halyards, reefing lines and clew outhaul

2 x 46.2 Radial Harken winches for Jib sheets.

"T" mainsheet system with 2 x Harken 40.2 STA Radial winches

2 Harken winch handles with stowage pockets.

7 Spinlock rope clutches for halyards and reefing lines

1 Spinlock rope clutch on the bulwark for Jib furling line

Harken Jib tracks recessed under the coach roof for optimal sheeting angle without the need for inhaulers

### **3.5 Anchor windlass and stemhead fitting**

Quick 1000 W Anchor windlass.

Electrowelded stainless steel anchor stemhead, easily removed when not required.

Stainless steel rollers for anchor with Teflon bushes.

### **3.6 Pulpits and stanchions**

25mm diameter stainless steel stanchions.

5 mm stainless steel cable guardrails with turnbuckles

Open bow pulpit with built-in navigation support for LED nav light.

Split stern pulpit with built-in navigation support for LED nav light.

### **3.7 Deck finishes**

Side decks and coachroof clad in white non-skid GRP. (Teak optional)

Cockpit seats and sole clad in 8mm vacuum bonded teak

2 lifting helmsmans footrests.

Moulded recess for optional sprayhood.

All halyards and reefing lines are led 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 coaming.

## **MOTOR**

### **4.1 Engine**

Volvo D2 29 hp diesel with S-drive and 2 blade fixed propeller (Volvo 40 hp optional).

Separate bilge for engine.

Alternator for charging the batteries.

### **4.2 Equipment Room**

Engine room insulation made of flameproof material chosen for both heat insulation and sound deadening

Engine room ventilated by an electric fan

### **4.3 Fuel Tank**

The tank is in stainless steel.

150 lt fuel tank.

Electronic level indicator.

Copper engine feed pipe.

Easy-to-access fuel filter.

## **ELECTRICAL EQUIPMENT**

The main electrical system of the board is 12 V.  
220v Shore power system with shore lead

### **5.1 Batteries**

2x90 Ah / 12V AGM batteries for service.  
1x70 Ah / 12V AGM battery for engine starting  
Quick SBC 700 40 Ah automatic battery charger.

### **5.2 Electric control panel**

Electric control panel with cut-out switches, voltmeter, ampere meter showing service consumption  
All wiring and cables are passing in special internal channel tubes and junction boxes for ease of exchange of wiring.  
12V and 220V sockets in galley, navigation station and sleeping cabins

### **5.3 Lighting**

Led lamps ensure adequate lighting for the interior.  
Navigation, anchor, running, deck, compass and instrument lights.  
Starboard and port LED lights (green and red).  
White LED stern light.

## **PLUMBING SYSTEM**

### **6.1 Fresh water tanks**

2 rigid polyethylene water tanks with an approx capacity of 320 lt. complete with inspection covers and anti-surge baffles.  
The tanks are located below the main saloon berths to optimise weight distribution.

### **6.2 Pumps**

Auto- electric pump to drain the shower tray.  
Electric pump to drain bilge  
Cockpit mounted manual bilge pump  
Auto-electric pressure pump for hot and cold fresh water.

### **6.3 Boiler**

25 lt calorifier tank with 220V immersion element.  
Operating through heat exchanger system with the engine (cooling circuit).

### **6.4 Piping and Seacocks**

The below waterline skin fittings are mounted flush on the hull to minimise drag.  
Seacocks are easily accessible and have a ddz bronze quick closing ball valve.  
Piping of hot and cold water in rigid odourless PVC tubing.  
All pipes for drains and bilge pumps are of a special reinforced rubber.



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