



ITA 14.99

Technical Specification



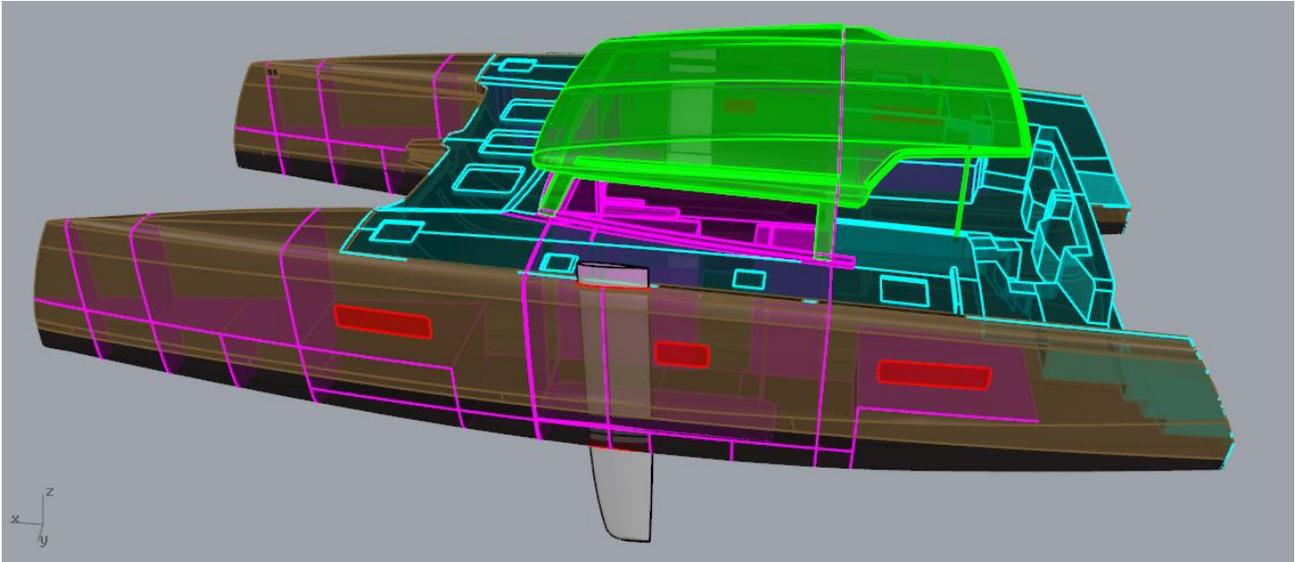
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ITA14.99 Characteristics

Length Overall (LOA)	14.99 m	49.18 ft
Beam Overall (BOA)	7.80 m	25.59 ft
Hull Beam	1.50 m	4.92 ft
Hull Draft	0.65 m	2.13 ft
Hull Draft (Daggerboards Down)	2.50 m	8.20 ft
Hull Draft (Daggerboards Up)	1.20 m	3.94 ft
Light Displacement	10.5 t	23148.54 lb
Full Displacement	14.5 t	31967.03 lb
Bridgedeck Height (Full Loaded)	0.92 m	3.02 ft
Saloon Headroom	2.1 m	6.89 ft
Hull Headroom	2 m	6.56 ft
Mast Length	21.5 m	70.54 ft
Air Draft	23.60 m	77.43 ft
SAIL AREAS (standard)		
Mainsail	91 m ²	979.52 ft ²
Self-Tacking Jib	49 m ²	527.43 ft ²
Staysail	24 m ²	258.33 ft ²
Code 0	120 m ²	1291.67 ft ²
Gennaker	140 m ²	1506.95 ft ²
Spinnaker	180 m ²	1937.50 ft ²
Engines	2 x 15kW OCEANVOLT Saildrive Hybrid Propulsion	
Certification	CE Cat. A, B, C	
Architect & Interior Design	Yacht Design Collective/Emanuele Soli	

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COMPOSITE



HULL, DECK AND ROOF CONSTRUCTION

FEA structural calculation

- Structural analysis with 3D finite element mesh of composite lamination.
- Calculation stresses and safety margins.
- Definitive sizing and final optimization of the rolling plan.

All components are laminated by infusion

All components are vacuum infused with EPOXY RESIN and post-cured using:

- Multiaxial E-Glass and additional unidirectional modulus CARBON fibres for maximum rigidity and strength
- CORECELL™ M as sandwich core for hull, deck, roof, for bulkheads and secondary structures

and submitted to a final post cure process to optimize mechanical characteristics.

The composites undergo a final post-cure process to optimize mechanical characteristics.

Hulls deck deckhouse are infused in a single body, without joints and secondary laminations, to obtain a lighter integral structure.

The primary bulkheads are glued and laminated on both sides.

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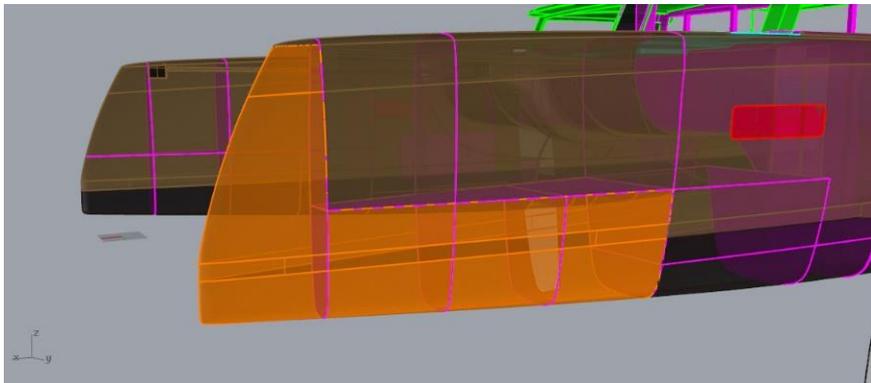
Even the Deck is laminated as a single body, with all the supports infused for the deck accessories in monolithic laminate marine, marine plywood and high-density foam for high load areas such as supports for winches, stoppers, eyebolts, rails.

The covered hull junction area is glued with structural glue and completely laminated to obtain a monolithic structure using biaxial fibers to maximize load distribution.

The daggerboards are infused under vacuum with epoxy resin using biaxial fibres, unidirectional carbon and high-density foam.

The daggerboards cases are laminated and reinforced with unidirectional carbon and wrapped with biaxial fibres.

The bows are equipped with n. 4 watertight bulkheads and 4 crash boxes for total safety in case of event of an impact.



The entire lamination process and all its parameters are strictly controlled and documented by a specific Quality Control Procedure.

PAINTING

Hull: Gelcoat RAL 9010 Traffic White. Possibility of other colours (OPT).

Deck/Roof: Gelcoat RAL 9010 Traffic White with anti-skid paint.

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INTERIOR LAYOUT

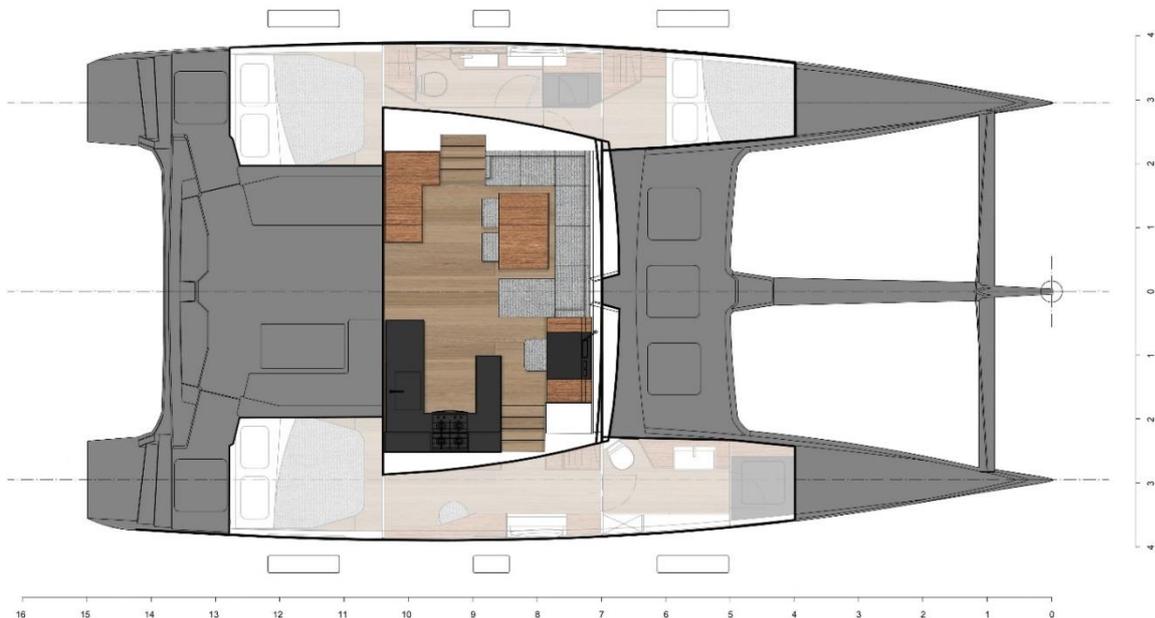
INSIDE EQUIPMENT

All the glasses are tempered with safety thicknesses of 8 mm thick and meet the requirements of the most rigid protocols of the certification bodies.

All furniture is made with:

- Real teak veneer on both external and internal sides of furniture
- Shock-resistant balsa sandwich SUPERLIGHT BLOCKBOARD
- 2 standard essences in lacquered wood, ALPI collections: Teak and Oak. Other essences are available in option.

The Floors are made with high quality synthetic wood. OPT floor with real wood veneer.



SALON

Comfortable and spacious living room with 360° exterior views.

All furniture is made to measure in wood essence, with a balsa sandwich core for great lightness and mechanical resistance.

Large U-shaped sofa on the left with comfortable seating area cushions. In OPT drawers at each end of the sofa, for easier access.

Ample storage space under the seats, large dining table.

Spacious cabinet in front of the seating. The spacious cabinet-making is customizable for additional fridge/freezer and retractable TV (OPT).

N. 1 x 220V AC electrical socket.

Total LED lighting.

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UPHOLSTERY

Interior is fitted with strong, lightweight and durable technical fabrics which are UV stabilized.
The cushions' backside are fitted with mesh for optimal airing. All cushions are made with high resilience foam and removable covers, 10 cm thick and available as various standard colours.
All panels are covered in eco-leather for easy maintenance.

NAVIGATION STATION

Starboard large chart table with a complete panoramic view.

Ergonomic console for navigation and communication instruments.

Large cabinet outboard with 3 drawers for navigation charts and books. Possibility to add an additional 4th drawer as an OPT.

White/Red LED adjustable lamp.

Console with 1 x 220V AC and 1 x USB electrical sockets.

STD U-shaped galley



GALLEY

Standard starboard U-shaped galley with hardtop opening unto the cockpit.

Large stainless sink with quality fixtures, hot/cold running water and side draining surface.

Spacious 4-drawer cupboard to the right of sink.

Large storage under the countertop and below the sink.

Flush mounted induction stove top and separate built-in electric oven.

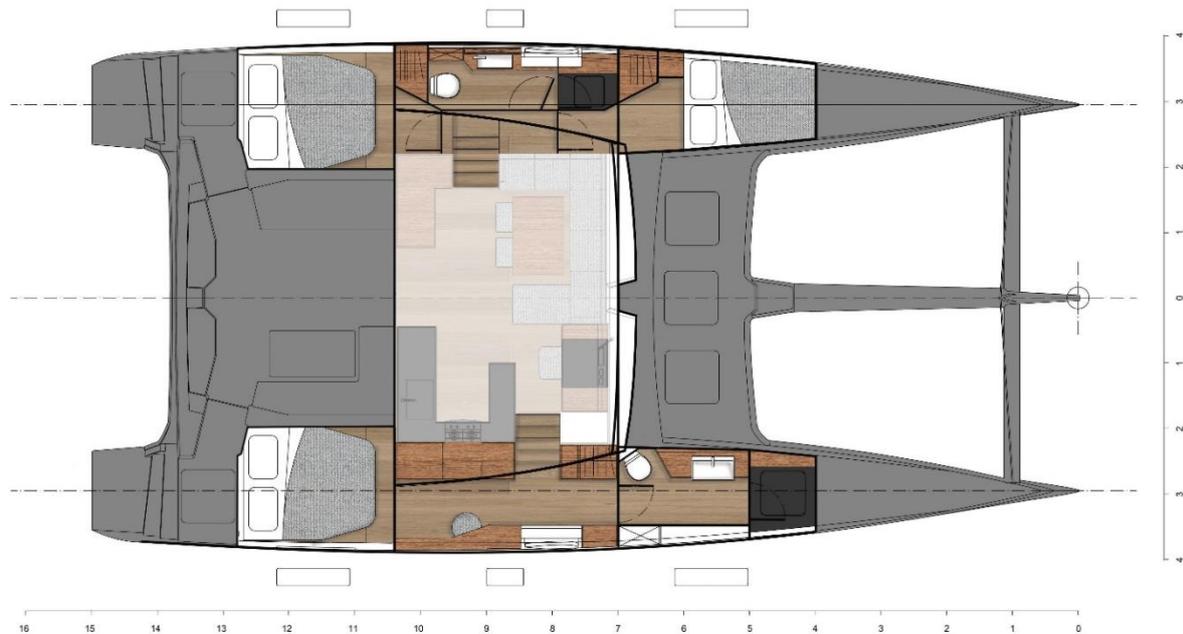
Large 2-drawers 130 L refrigerator

Additional space for personalization (eg. microwave, wine glass shelves -OPT).

1 x 220V AC electrical socket.

LED lighting over area.

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STARBOARD OWNER'S HULL

CABIN

Access to hull via sliding wooden door for total cabin privacy.

Queen size bed: length 2.00 m, width 1.60 m, 12 cm high comfort mattress with washable cover.

Lateral step for easy access to the bed.

Inboard books shelf.

Seatee next to bed with internal storage.

2 x LED reading lamps at head of the bed.

Large fixed tempered glass window to the hull side.

Large fixed glass window on aft bulkhead made of Tinted Tempered glass.

1 x 220V AC electrical socket.

HALLWAY/MIDSHIP

Inboard spacious multiple wardrobe lockers with drawers, shelves and closet.

Outboard shelf which can become a small desk.

Fixed tempered glass window to the hull side.

Fixed tempered glass escape hatch under stairs to the internal hull side.

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BATHROOM

Spacious inboard wooden counter with double cupboard storage below.
Corian sink basin and stainless tap with hot/cold running water.
Large double mirror above counter, fixed on cupboard with double storage.
Inboard manual toilet.
Wide separate shower with indented seat/shelve.
Fixed tempered glass window to the hull side.
1 x 220V AC electrical socket.

PORTBOARD GUEST'S HULL

AFT CABIN

Wooden door for closing the cabin for total privacy.
Bed: length 2.00 m, width 1.60 m, 12 cm high, comfort mattress with washable cover.
Lateral step for easy access to the bed.
Inboard books shelf.
Outboard wardrobe (closet and drawers).
2 x LED reading lamps at head of the bed.
Large fixed tempered glass window to the hull side.
Large fixed tempered glass window to the stern.
1 x 220V AC electrical socket.

HALLWAY

Access via door to cabins and central bathroom.
Fixed escape glass hatch under stairs to the internal hull side.

CENTRAL GUEST BATHROOM

Outboard counter with large double cupboard storage below.
Corian basin and stainless tap with hot/cold running water.
Wall mirror above counter, fixed on cupboard with double storage.
Manual toilet.
Wide separate shower.
Fixed tempered glass window to the hull side.
1 x 220V AC electrical socket.

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FRONT CABIN

Wooden door for closing the cabin.

Bed: length 2.00 m, width 1.45/1.35 m, 12 cm high-comfort mattress with washable cover.

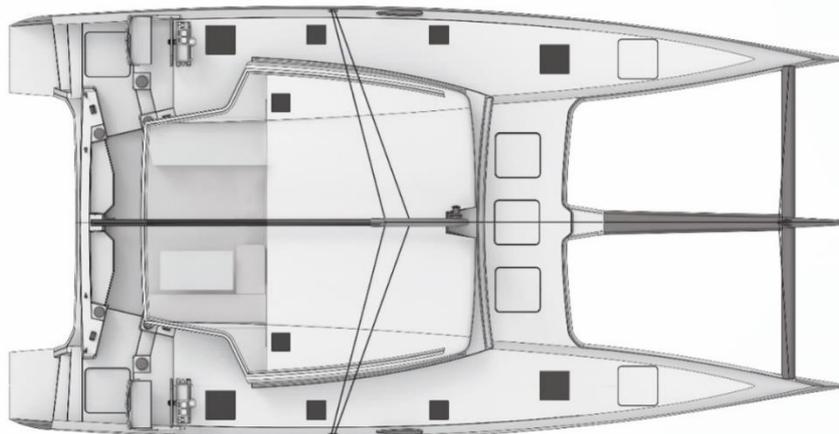
Outboard wardrobe (closet and drawers).

2 x LED reading lamps at head of the bed.

Large fixed tempered glass window to the hull side.

1 x 220V AC electrical socket.

DECK LAYOUT & RIGGING



STANDING RIGGING

Anodized Aluminium mast with AISI 316 Stainless Steel 1 x 19 wires standing rigging.

Access step for access to roof.

Windex on masthead.

Anodized Aluminium boom with internal single line reefings, with 2 reefs, OPT 3 reefs.

Padeyes for lazy jack.

Regulatory lights (Tricolour navigation on martingale, steaming, anchor on masthead, stern).

Composite Forward Crossbeam and compression beam/bowsprit with built-in Primary Anchor Roller

Carbon Martingale with AISI 316 Stainless Steel rigging

Structural Solent (Jib) roller furler on AISI 316 Stainless Steel 1 x 19 wires headstay.

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RUNNING RIGGING & DECK GEAR

2 x 50.2 STA winch on mast (halyards, reefs, topping lift).

2 x 50.2 STA mainsheets winches (mainsail, tender lift) .

2 x 50.2 STA primary inboard winches (jib sheets, daggerboards, gennaker and Code 0 sheets).

1 x Dual Mainsail sheets (i.e. Triangular bridle system).

Self-tacking jib on jib track with ball-bearing jib car .

Rope clutches for control lines on deck and mast.

DECK FITTINGS

3 x flush deck composite hatches in front of mast (700 X 700 mm) (OPT 800 x 800)

2 x flush deck composite hatches for access to sail lockers (700 mm × 700 mm) (OPT 800 x 800)

2 x flush deck composite hatches for access to engine room ((700 mm × 700 mm) (OPT 800 x 800)

2 x flush deck hatches above forward guest cabin and owner's bathroom (512 mm × 512 mm)

2 x flush deck hatches above aft cabins (512 mm × 512 mm)

2 x flush deck hatches above the saloon (330 mm × 330 mm)

ANCHORING & MOORING

6 x 360 mm stainless steel cleats.

14 x stainless steel stanchions 61 cm high, Double synthetic Lifelines

Horizontal 1500W electrical anchor windlass

25 kg, 50m long galvanized anchor with 10 mm chain and 5m braided nylon rope.

High comfort 2-part braided white Trampoline, individually attached to hulls, bowsprit and transversal beam.

Composite davits

COCKPIT

Full composite bulkhead with two wide windows and two large central sliding doors.

Fixed composite and carbon reinforced bimini roof.

Starboard L-shaped seating area with storage and composite table.

Portboard comfortable daybed with ample storage.

Two bench seats on aft crossbeam with storage below.

LED lights on the ceiling.

HELM STATION & STEERING

2 x fixed wheel helm stations with back rests (OPT Swinging wheels and helm seats).

2 x composite consoles

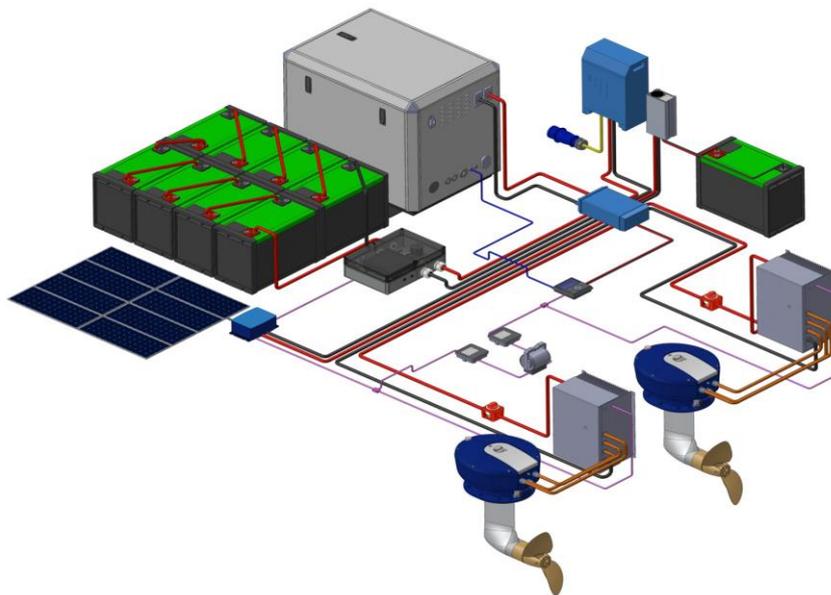
2 x 90 cm diam, stainless steel, leather covered fixed wheels.

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2 x composite balanced rudders on self-aligning non-metallic PETP bearings with AISI 630 shaft 55 mm of diameter.

Direct rod and cable steering System.

TECHNICAL EQUIPMENT



PROPULSION

2 x 15kW OCEANVOLT Saildrive electrical engines.

2 x 2-blade folding propellers 16,5 x 11" functioning as a hydro generator while under sail.

1 x 15kW Diesel generator.

1 x 48V/8000W/110A inverter/charger.

1 x Motor control on Starboard console

10 x 69Ah 24V lithium batteries for engine propulsion (total 16,5 kW).

2 x 230 Ah 12V AGM service batteries in series 24V.

1 x OCEANVOLT dual control on starboard helm station.

1 x 215 l high grade linear polythene diesel tank.

2 x blower fan for engine room ventilation.

Complete damping and noise insulation in each engine room compartment.

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WATER SYSTEM

- 2 × 330 l high grade linear polythene water tanks with independent circuits (hot/cold)
- 2 × 24V pressure pumps
- 2 × 25 l water heaters with 230V heating elements
- 2 × 60 l high grade linear polythene self-emptying black water tanks.
- Grey waters collection tank.

ELECTRICAL & SOLAR SYSTEM

- 4 + 4 Solar panels (circa 1 Kw).
- 24V DC and 220V AC/50Hz or 110V AC/60Hz voltage circuits.
- 1 × 24/25 Phoenix Charger for service batteries.
- 1 × Blue Smart IP22 12V 20Ah Charger for engine batteries.
- 2 × engines starting batteries AGM 70 Ah 12V
- 1 × 220V shore power outlet with 15m of extension cord.
- Electric control panel with thermal circuit breakers.
- Outlets: 8 × 220V/110V AC, 1 × 12V DC.
- LED illumination.

NAVIGATION ELECTRONICS

- 1 × Compass on each steering station.
- 1 × wind/depth/log system.
- 1 × VHF marine radio.

SAFETY

- 2 × fire extinguishers in engine rooms.
- 5 × fire extinguishers in living areas.
- 4 × automatic bilge pumps (1 × each engine compartment / 1 × each hull).
- 1 × emergency manual bilge pump per hull.
- 1 × shut-off valve on fuel tank.
- 1 × emergency tiller.
- Mechanical rooms and sail lockers equipped with LED lighting and ladder.

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**YACHT DESIGN
COLLECTIVE**



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