



NEEL 52

INVENTORY NEEL 52
TECHNICAL SPECS
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SOMMAIRE

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01. Characteristics

Length overall	15,98 m 52 ft
Width overall	8,80 m 26.24 ft
Draft	1,90 m 6.23 ft
Light displacement	13,5 T
Living area	70 m ² 753 .474 sq.f
Standard rigging aluminium mast	
Square-top full-batten mainsail (3 reefs)	95 m ² 1022,57 sq.f
Genoa	71 m ² 764,238 sq.f
Furling staysail	32 m ² 344,445 sq.f
Spinnaker	180 m ² 1937,5 sq.f
Sail area upwind	166 m ² 1786,81 sq.f
Air draught aluminium mast	24.1 m 78,74 ft
Performance rigging carbon mast (optional)	
Square-top full-batten mainsail (3 reefs)	102 m ² 1097,92 sq.f
Genoa	71 m ² 764,238 sq.f
Furling staysail	32 m ² 344,445 sq.f
Spinnaker	200 m ² 2152,78 sq.f
Sail area upwind	173 m ² 1862,16 sq.f
Air draught carbon mast	24.8 m 78,74016 f
Aluminium water tank	500 L 132,086 gal.
Aluminium fuel tank	780 L 206,054 gal.
Engines Saildrive engine	110 CV / 77.7 kw
Shipbuilder	NEEL-TRIMARANS
Architects	Marc Lombard Yacht Design Group
Certification	CE (ICNN)
Cat A=14 pers- Cat B=14 pers- Cat C=30 pers- Cat D= 30 pers	

02. General

- > Ebénisterie en Alpi®
- > Woodworking in Alpi wood®
- > Bolon floor covering® (high-resistance polyester woven fabric)
- > Alpi® veneer and/or white/beige upholstery
- > Synthetic fabrics adapted to the marine environment, washable, UV resistant
- > Blackout curtains in the cabins
- > LED lighting
- > Inspection hatches in each bathroom

Headroom below deck, approximately:

Kitchen	2.00m	Master cabin	2.00m	Lockers	1.95m
Charte table / desk	2.00m	Floating suites	1.95m	Machine rooms	1.95m
Cockloot®	2.00m	Skipper's cabin	1.95m		

03. Construction

- > Construction materials: high-quality, anti-osmotic isophthalic polyester and vinylester resin infusion moulding on closed-cell PVC foam core and quadriaxial fibreglass skin.
- > Protection aileron in monolithic laminate
- > Composite layout counter mould
- > Infusion-moulded structural partitions with closed-cell PVC foam core
- > Hull finished in light grey gel coat
- > Deck finished in non-skid, white gel coat

04. Sails and rigging

A. Sails

For an anodised aluminium mast

- > Grand-voile lattée en dacron à 3 ris
- > Génois en dacron sur enrouleur manuel avec bande anti UV
- > Trinquette en dacron sur emmagasineur

For a carbon mast (high-performance rigging option)

- > Mainsail in triaxial Hydranet with 3 reefs
- > Genoa in triaxial Hydranet with UV protection on hand-operated furler
- > Staysail on furling system in triaxial Hydranet with UV protection on hand-operated furler

B. Standing rigging

Anodised aluminium mast with rail and car

- > 2 levels of spreaders
- > 1 anodised aluminium boom
- > 2 jacketed single-strand stainless-steel shrouds
- > 2 jacketed single-strand stainless-steel lower shrouds
- > 1 single-strand stainless-steel cable forestay with hand-operated furler
- > 2 adjustable lazy jacks
- > 1 deck searchlight mounted on the mast
- > 1 lazy bag

High-performance rigging carbon mast

- > 1 spreader set
- > 1 painted aluminium boom
- > 2 fabric shrouds with a Dyneema vectran core and a Dyneema jacket with stainless steel turnbuckle
- > 2 fabric lower shrouds with a Dyneema vectran core and a Dyneema jacket
- > 1 single-strand stainless-steel cable forestay mounted on a hand-operated furler
- > 2 adjustable lazy jacks
- > 1 deck searchlight mounted on the mast
- > 1 lazy bag

C. Running rigging

- > 1 Dyneema mainsail halyard for pulley
- > 1 Dyneema genoa halyard kept at the base of the mast by jettisonable lashing
- > 1 Dyneema staysail halyard
- > 1 spinnaker halyard
- > 1 boom topping lift
- > Reefing lines
- > genoa sheets
- > 2 staysail sheets
- > 2 mainsail sheets lead back to the manoeuvring station

05. Fittings

- > 3 self-tailing winches size 52 (or equivalent) at the centre of the manoeuvring station
- > Triple jammers upstream for mainsail halyard, mainsail sheets, reefing lines, staysail sheet, boom topping lift, spinnaker halyard, staysail halyard.

06. Anchorage

- > 1 electric windlass 24 V 1700 W with a horizontal sprocket on the deck (12 mm chain) with wired remote control in the anchor well with headstock
- > Access to the windlass and the chain locker via deck hatch
- > Anchor locker located under the windlass

07. Miscellaneous equipment

- > Anodised aluminium rails
- > 2 aft boom pulpits
- > Pulpits in front of the central hull
- > 8 stanchions height 750 mm
- > 3 lifelines in phosphorescent Dyneema
- > 1 Swedish seat on each bow float

08. Plumbing

A. Freshwater system

- > Freshwater tanks: 1 aluminium 500 L tank with gauge on the chart table
- > Freshwater system with 2 x 24 V water pumps
- > Hot water system with 1 x 75 L 220 V water heater with heat exchanger
- > 1 hot /cold shower in the aft transom on a float port side
- > Freshwater electric toilet

B. Wash water

- > Drainage of sinks, showers and washbasins by gravity to the sea

C. Blackwater

- > Blackwater holding tanks gravity discharge to deck and sea

D. Système Bilge pumping system with 5 electric pumps + 1 hand pump

- > 1 hand sump pump central hull
- > 1 electric pump per float and 3 electric pumps in the central hull (included 1 electric bilge pump for the engine and technical compartment with automatic release)
- > CE mark self-draining cockpit

09. Electricity

A. Power circuit

- > 1 pack of 6 x 12 V AGM gel batteries, 165 amps
- > 1 x 24 V 110 amp Valeo alternator with ALPHA PRO regulator
- > 220 V network with 2 Mass Combi Pro 24 V 3500W 100A
- > 1 DC/DC 24/12 V 100A Orion converter
- > 1 60 AH shore connection with 25 m shore power line
- > 1 Optima 50 amp 12 V battery for engine starting
- > 220 V power sockets

B. Electric switchboard

- > General 24 V switchboard mounted on a recessed panel next to the chart table desk protected by breakers

C. Lighting

- > LED lighting
- > LED navigation lights

010. Deck plan

A. Rear cockpit

- > This is protected throughout by a rigid Bimini top
- > Cockpit bottom finished in a non-skid, gel coat
- > Deck hatch providing access to the technical and engine compartment
- > Large single level cockpit (table and bench) on the port side. To starboard, a space that can be fitted out with either a sunbathing area or an outside kitchen (including hot/cold water sink, refrigerator, waste bin)
- > Cockpit cushions and seating

B. Floating transoms

- > Large swim platform for each floating transom for boarding the saloon and to provide lateral access to the catwalk
- > Hot/cold shower in the aft transom on a float port side
- > Handrail on each aft transom
- > Folding boarding ladder on a float port side

C. Central hull transoms

- > Supplementary boarding ladder with hot/cold shower optional.
- > Dinghy reception cradle moulded on hull, housing for BIB (1 or 2)

D. Helm station and manoeuvring station (same space)

- > Access via starboard and cockpit catwalk
- > Large ergonomically designed polyester bench for 2 people
- > 800 mm diameter steering wheel
- > Dash panel with compass, engine control, navigation aid (optional) and control for operating the bow thruster control (optional or included in Premium version)
- > All manoeuvres returned to the helm station
- > Halyards and sheets stored in a special sheet bag

E. Sun deck

- > Access from the helm station via steps
- > Bench and solarium (length= 2 m, width =2 m) (seating and cushions included in the 'Premium' version and optional in the 'Essential' version)

F. Forepeak (storage space not provided)

- > Access from the deck hatch

G. Miscellaneous

- > Gas cylinder lock box, accessed by the deck hatch on the starboard side

011. Fittings and fixtures

A. Cockloon®

- > This is a genuine innovation which provides accommodation for up to 14 guests in a mixed indoor/outdoor area with 2 tables which creates an original space with unique, totally unobstructed views of the sea outside.
- > It can be modulated into two separate areas with an indoor table and outdoor table by using a modular partition window, which can, depending on preferences and the weather, be open, half open or totally shut.
- > Optional inner table with telescopic leg, which can be swivelled to become a cocktail table

B. Espace bureau | table à carte

- > Panoramic views in the direction of travel.
- > Large chart table desk Length = 150 cm, width = 75 cm with storage drawer
- > Storage shelves
- > Fixed seat with storage drawer or wine cellar (optional)
- > Adjustable reading light
- > Electric switchboard and equipment control
- > Dash panel for navigational electronics

A. Kitchen

- > Panoramic kitchen with a huge synthetic resin work surface
- > 1 x 4-burner gas hob
- > Built-in gas oven with grill
- > Microwave oven (optional)
- > Total positive cold volume of 190 L with two stainless steel drawers
- > Cold storage of 92 L
- > Dishwasher holding 10 place settings (optional) or kitchen storage a standard
- > Storage drawers
- > Cutlery drawer
- > Drawer for pots and pans
- > Stand-alone waste bin with integrated opening in the worktop and access to bag removal through a side door

SKY DECK VIEW Version – 5 cabins :

- > Top and bottom storage units against the partition wall to the Master Cabin
- > TV (optional) located on the partition wall to the Master cabin

B. Master cabin and owner's suite

Owner's suite on two levels, with master cabin on one level and office, dressing room, bathroom and laundry room in starboard float.

Master cabin

- > Unique views to the horizon
- > Panoramic glazing on catwalk, galley and cockpit
- > Blackout curtains
- > 1 160 x 200 bed with 2 drawers
- > Optional slatted bed bases
- > 2 bedside tables - 2 reading lights,
- > Direct access to the lower float level

Starboard float

- > 1 dressing room with 6 storage units
- > 1 library
- > 1 desk with seat
- > **Owner's bathroom :**
 - > Mirrored wall unit and storage space
 - > Washbasin
 - > Separate shower area with door
 - > Freshwater electric toilet
 - > Lateral ventilation hatch
 - > Duckboards
- > 1 laundry room (accessible through the bathroom and from a deck hatch)

C. Float port side 2 guest suites

Each guest suite has:

- > 1 independent interior access via stairs and sliding door
- > Large porthole in the hull providing light and a unique view of the horizon
- > Blackout curtains
- > 2 reading lights
- > 1 150 x 200 cm bed with underneath storage
- > Wardrobe
- > Door to the bathroom

Bathroom

- > 1 electric toilet (freshwater with holding tank)
- > 1 washbasin with mixer tap with storage space underneath and mirrored wall unit
- > 1 shower
- > 1 duckboard

D. Central hull

Forward cabin

- > 1 electric toilet (freshwater with holding tank)
- > 1 washbasin with mixer tap with storage space underneath and mirrored wall unit
- > 1 shower
- > 1 duckboard

Rear cabin

- > 1 double bed 160 x 200 cm
- > Side storage
- > 1 electric ventilation system
- > 1 fixed side porthole on port side
- > 1 opening porthole on starboard side

Bathroom

- > Can be accessed from both cabins
- > 1 shower
- > 1 washbasin with mirrored wall unit
- > Freshwater electric toilet
- > Deck hatches

E. Crew cabins (optionnal)

Located aft of the port and starboard floats

- > Accessible via deck hatches located on the catwalks
- > Ventilation hatch
- > Bed 200 cm x 60 cm

- > Electric toilet
- > Washbasin and hot/cold water shower
- > Storage

F. Central hull locker

- > Access from the deck hatch
- > Shelves for technical equipment and storage

Technical area:

This contains all the heavy equipment: water and diesel tanks, water pump, all the electrical equipment, including batteries, combi, electric switchboards. Reserved space for air conditioning and/or desalinator, optional.

Access to the machine room at the rear

All technical parts are fully accessible and protected from bad weather. Access to the machine room is facilitated by ample headroom of 1.95 m. There is the engine and batteries, the water heater and the generator (optional), plus direct access to the helm area and the textile lines at the rear

012. Engine | Propeller

- > Yanmar 4JH 110 hp engine with 12 V cable harness
- > 1 x 12 V 110 amp alternator
- > 1 x 12 V 50 amp OPTIMA starting battery
- > 1 folding propeller
- > Sea-water filter
- > Bilge ventilation: natural intake and forced extraction in the cockpit
- > Fuel system, fuel filter, fuel tank outlet stop valve
- > Electric engine control to the helm station
- > 240 mm diameter bow thruster, double helix, 24 V
- > Joystick thruster control mechanism on the steering console

013. Mooring

- > 4 winches 16 mm diameter
- > 6 fenders 300 mm diameter 800 mm height
- > 7 mooring cleats

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