

NEEL 47

“Essential version” specification

NEEL Trimarans 4 rue Virginie Hériot, BP 23085 17032 La Rochelle cedex
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A. CHARACTERISTICS

LOA	= 14.20 m
WOA	= 8.30 m
Draft	= 1.60 m
Light displacement	= 10.60 T

Living area and storage on board = 107m²

Standard rigging aluminium mast

- Square-top full-batten mainsail (2 reefs) = 70 m²
- Genoa = 50 m²
- Self-tacking staysail = 20 m²

Water tank aluminium	= 600 L
Fuel tank aluminium	= 300 L

Engine Saildrive engine VOLVO 60 hp

Manufacturer: NEEL Trimarans
 Naval Architect: Marc Lombard Yacht Design Group
 Certification: CE ICNN

B. GENERAL

- Woodworking in Alpi wood
- Bolon floor covering (high-resistance polyester woven fabric)
- Alpi veneer and/or white upholstery
- Synthetic fabrics adapted to the marine environment, washable, UV resistant
- Blackout curtains in the cabins

C. CONSTRUCTION

- Construction materials: high-quality isophthalic polyester and vinylester resin infusion moulding on closed-cell PVC foam core and quadriaxial fibreglass skin.
- Protection aileron in monolithic laminate
- Floor in sandwich foam manufactured by infusion
- Infusion-moulded structural partitions with closed-cell PVC foam core
- Hull finished in light grey gel coat
- Deck finished in non-skid, diamond-pattern white gel coat
- Numerous reserve buoyancy

D. SAILS AND RIGGING

1. Sails

For an anodised aluminium mast

- Full-batten mainsail in Dacron 2 rises
- Genoa in Dacron with UV protective band on hand-operated furler
- Self-tacking staysail in Dacron with UV protection on hand-operated furler

For a carbon mast (high-performance rigging option)

- Mainsail in triaxial Dacron 3 rises
- Self-tacking staysail in Dacron with UV protection on hand-operated furler
- Self-tacking staysail in Dacron with UV protection on hand-operated furler

2. Standing rigging

Anodised aluminium mast with rail and car

- 1 spreader set
- 1 anodised aluminium boom
- 2 jacketed single-strand stainless-steel shrouds monotoron cables
- 2 jacketed single-strand stainless-steel lower shrouds monotoron cables
- 1 single-strand stainless-steel cable forestay with hand-operated furler
- single-strand stainless-steel cable lower forestay with hand-operated furler
- 2 adjustable lazy jacks
- 1 deck searchlight mounted on the mast
- lazy bag on spacers

Optional high-performance rigging carbon mast

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

3. Running rigging

- 1 mainsail halyard for pulley
- 1 genoa halyard kept at the base of the mast by jettisonable lashing
- 1 staysail halyard kept at the base of the mast by jettisonable lashing
- 1 spinnaker halyard
- 1 boom topping lift
- reefing lines
- 2 genoa sheets
- 1 staysail sheet
- 2 mainsail sheets leading back to the helm station

E. FITTINGS

- 3 self-tailing winches at the centre of the helm station
- Jammers upstream for mainsail halyard, mainsail sheets, reefing lines, staysail sheet, boom topping lift, spinnaker halyard.

F. ANCHORAGE

- 1 electric windlass 12 volts with a horizontal sprocket on the deck for 10 mm chain with wired remote control in the anchor well
- Access to the windlass and the chain locker via a horizontal panel

G. MISCELLANEOUS EQUIPMENT

- 8 stanchions height 600 mm
Double lifelines in phosphorescent Dynema

H. PLUMBING

Freshwater system

- Freshwater tanks: 600 L tanks with gauge on the chart table
- Freshwater system with 1 main 12 V water pump
- Hot water system with 1 75 L 220 V water heater with heat exchanger
- 1 cold shower in the aft transom on a float port side
- Seawater electric toilet

Wastewater

- Sink, shower and wash basin drainage either by gravity flow or by electric pumping overboard

Blackwater

- Blackwater holding tank gravity discharge to deck and overboard

Bilge pumping system with 4 electric pumps + 1 hand pump

- 1 hand sump pump central hull
- 1 electric bilge pump for the engine compartment
- 1 electric bilge pump for the main hull bilge
- 2 electric bilge pumps with automatic release, one per float
- CE Mark self-draining cockpit

I. ELECTRICITY**1. Power circuit**

- Pack of 12 V AGM gel batteries, total 480 amps
- 1x12 V alternator
- 220 V network with 220V/12 V converter charger
- 1 x12 V/220 V converter
- 1 x 60 AH shore connection with 25 m shore power line
- 1 Optima 50 amp 12 V battery for engine starting

2. Electric switchboard

- General 12 V switchboard mounted on a recessed panel next to the chart table desk protected by breakers
- 1 Voltmeter/ amperemeter
 - LED lighting
 - LED navigation lights

J. DECK PLAN**1. Rear cockpit**

- Vast "Full Beam Cockpit" on one level with the COKLOON
- This is protected throughout by a rigid Bimini top
- Cockpit cushions and seating
- Cockpit bottom finished in non-skid, diamond-pattern gel coat

2. Floating transoms

- Large swim platform for each floating transom serving to allow boarding the saloon and lateral access to the catwalk
- Cold shower in the aft transom on a float port side and hand rail
- Folding boarding ladder on a float port side

3. Central hull transom

- 2 steps to water level
- Supplementary boarding ladder with hot/cold shower optional
- Dingy cradle (included in the “Premium” version and optional in the “Essential” version)

4. Helm station

- Access by starboard catwalk and from the cockpit
- Large ergonomically designed polyester bench for 2/3 persons
- 800 mm diameter steering wheel
- Dash panel with compass, engine control, navigational aid (optional) and control for operating the bow thruster (optional or included in the Premium version)
- All manoeuvres returned to the helm station
- Halyards and sheets stored in a special sheet bag

5. Floats bow cabins (optional)

- Fitted with mattresses, storage shelving
- All veneered on the sides
- Reading light

6. Sun deck

- Access from the helm station by three steps
Optional roof mattress 2m x 1.5 m. (Must not be used while sailing)

7. Miscellaneous

- Gas cylinder lock box, accessed by the foredeck on the port side in compliance with CE Mark

K. FITTINGS AND FIXTURES

1. Owner's suite

- Level access
- Living area with private bathroom
- Unique views over the open sea
- storage wardrobes
- Drawer storage
- 1 x 150 x 200 double bed with access from both sides
- LED lighting, 2 reading lights
- Blackout curtains
- Optional slatted bed bases

- Bolon floor covering

2. Wellness area

- 1/3 of the main hull is dedicated to a very large “Confort of board space” gathering 4 independent functions:
 - ✓ Dressing; 2 meters long wardrobe, shelving. Perfect for liveaboard program.
 - ✓ Independent sink/mirror/stowage space
 - ✓ XXL shower (0.9m beam/1.20m length) with plexiglass anti-spray protection.
 - ✓ Independent WC

3. Float guest suites

- External access by staircase
- Entrance SAS with hanging fittings and sink (Optional WC under the steps)
- Large porthole in the hull allowing in light and offering unique views of the sea
- Wardrobes and storage shelving
- Storage space under the bed
- 1 x 140 x 200 double bed
- LED lighting, 2 reading lights
- Blackout curtains
- Bolon floor covering
- 1 x 220 outlet (included in the Essential pack)

L. KITCHEN

- Panoramic kitchen with a huge synthetic resin work surface with built-in washboard
- 1 x 2-burner gas hob
- Built-in stainless steel gas oven with grill
- Microwave oven (optional)
- Positive temperature fridge
- Negative Temperature fridge
- Dishwasher holding 10 place settings (optional) or kitchen storage a standard
- Storage drawers
- Cutlery drawer
- Drawer for pots and pans
- Separate waste bin
- Lighting by LED spotlights in the ceiling

M. COCKLOON (trademark)**1. Description**

- This is a genuine innovation which provides accommodation for up to 10 guests in a mixed indoor/outdoor area using 2 tables and creating 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.
- LED lighting

N. CHART TABLE DESK AREA

- Panoramic views in the direction of travel.
- Large chart table desk
- Flap
- Storage shelving
- Fixed swivel chair
- Adjustable reading light
- Electric switchboard and equipment control built into the side box
- Dash panel available for navigational electronics
- Bolon floor covering

O. CENTRAL HULL LOCKER

- Easy and practical access by stepladder, removable floor opening by air cylinder assembly
 - LED lighting
 - Shelves for technical items and storage
 - **Technical area**
 - **This is the centre of gravity of the boat and contains all the heavy equipment, water and fuel tanks and optionally a generator and/or desalinator, all electrical equipment including the batteries.**
 - Optional air conditioner.
- 1. Access to the machine room at the rear**
- Access to the machine is facilitated by ample headroom through the cockpit floor hatch.
 - Farther to the rear there is direct access to the helm area, fabric steering lines
 - All technical areas are totally accessible and protected from bad weather

P. ENGINES

- Volvo D2 60 hp engine with 12 V cable harness
- 1 x 12 V alternator
- 1 x 12 V 50 amp OPTIMA starting battery
- Folding propeller
- Sea water filter
- Engine control cabled to the helm station
- 12 V lighting
- Hold ventilation: natural aspiration and extraction through the rear transom
- Fuel system, fuel filter, fuel tank outlet stop valve
- Bow thruster, 12 V
- Push-button thrust control mechanism on the steering console

Q. MOORING SYSTEM

- 4 mooring ropes
- 6 fenders