

NEEL 51

“Essential version” inventory

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

LOA	= 15.60 m
WOA	= 8.90 m
Draft	= 1.80 m
Light displacement	= 14 T

Living area and storage on board	= 107m ²
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Standard rigging aluminium mast

- Square-top full-batten mainsail (2 reefs) = 97 m²
- Genoa = 74.5 m²
- Self-tacking staysail = 31 m²
- Spinnaker = 188 m²
- Sail area upwind = 171.5 m²

High-performance rigging carbon mast (optional)

- Square-top full-batten mainsail (3 reefs) = 105 m²
- Genoa = 77 m²
- Self-tacking staysail = 31 m²
- Spinnaker = 205 m²
- Sail area upwind = 182 m²

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

Engine Sailandrive engine	VOLVO 75 hp/ 55KW
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Manufacturer:	NEEL Trimarans
Architects:	Joubert/Nivelt/Muratet
Certification:	CE ICNN

Cat A=10 pax- Cat B=12 pax- Cat C=25 pax Cat D= 30 pax

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

• Headroom below deck		
• Kitchen	=	2.00 m
• Chart table/desk	=	2.00 m
• Cockloot	=	2.00 m
• Master cabin	=	2.00 m
• Floating suites	=	1.95 m
• Skipper's cabin	=	1.95 m
• Lockers	=	1.95 m
• Machine rooms	=	1.95 m

C. 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
- 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 ensuring the boats unsinkability

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 Hydranet 3 rises
- Self-tacking staysail in triaxial Hydranet with UV protection on hand-operated furler
- Self-tacking staysail in triaxial Hydranet 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 Dynema mainsail halyard for pulley
- 1 Dynema genoa halyard kept at the base of the mast by jettisonable lashing
- 1 Dynema 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 size 52 at the centre of the helm station

- Triple jammers upstream for mainsail halyard, mainsail sheets, reefing lines, staysail sheet, boom topping lift, spinnaker halyard.

F. ANCHORAGE

- 1 electric windlass 24 volts 1700 W with a horizontal sprocket on the deck (12 mm chain) with wired remote control in the anchor well
- Access to the windlass and the chain locker via a horizontal panel
- Anchor locker located port side of the windlass

G. MISCELLANEOUS EQUIPMENT

- 4 cantilevered stainless-steel rear guard rails height 600 mm
- Stainless-steel pulpits in front of the central hull
- 12 stanchions height 600 mm
Double lifelines in phosphorescent Dynema

H. PLUMBING

Freshwater system

- Freshwater tanks: 1 aluminium 600 L tank with gauge on the chart table
- Freshwater system with 1 main 24 V water pump
- Hot water system with 1 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

Wastewater

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

Blackwater

- Blackwater holding tanks gravity discharge to deck and overboard

Bilge pumping system with 6 electric pumps + 1 hand pump

- 1 hand sump pump central hull
- 1 electric bilge pump for the engine compartment with automatic release
- 2 electric pumps for the rear garages
- 2 electric bilge pumps with automatic release, one per float switch + manual override + bilge level alarm
- CE Mark self-draining cockpit

I. ELECTRICITY**1. Power circuit**

- Pack of 4 24 V AGM gel batteries, total 495 amps
- 1 24 V 110 amp alternator with ALPHA PRO regulator
- 220 V network with 60 amp 220V/24 V converter charger
- 1 2000 W 24 V/220 V converter
- 1 60 AH shore connection with 25 m shore power line
- 1 Optima 50 amp 12 V battery for engine starting
- 1 115 amp 14 V alternator
- 11 220 V plugs, lounge, cabins, saloon, chart table

2. Electric switchboard

- General 24 V switchboard mounted on a recessed panel next to the chart table desk protected by breakers
- 1 power consumption meter
 - LED lighting
 - LED navigation lights

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

- Vast cockpit on one level with the COKLOON on one side and a chaise longue on the other
- This is protected throughout by a rigid Bimini top
- Cockpit cushions and seating
- Outside kitchen island (optional) including work surface, hot and cold water sink, refrigerator, waste bin
- 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
- Hot/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
- Reception space in the saloon (included in the “Premium” version and optional in the “Essential” version)

4. Helm station

- Access by starboard catwalk
- Large ergonomically designed polyester bench for 2 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)

5. Ergonomic helm station

- All manoeuvres returned to the helm station
- Halyards and sheets stored in a special sheet bag

6. Bow lockers (optional)

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

7. Sun deck

- Access from the helm station by two composite steps
- Bench with seatback and solarium (seating and cushions included in the “Premium” version and optional in the “Essential” version)
Solarium length = 2 m, width = 2 m

8. 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

- Four-drawer storage (2 under the bed and 2 accessible from the central partition)
- 1 160 x 200 double bed with access from both sides
- LED lighting, 2 reading lights
- Blackout curtains
- Optional slatted bed bases
- Bolon floor covering

2. Owner's bathroom

- Bathroom with separate shower, storage under the wash basin
- High mirrored item of furniture with storage
- Freshwater electric toilet
- Lateral ventilation hatch
- LED lighting
- Bolon floor covering

3. Floating guest suites (optional)

- Internal access by staircase
- Closed off by sliding door
- Living area opening onto a private bathroom
- Large porthole in the hull allowing in light and offering unique views of the sea
- Wardrobes and storage shelving
- Storage space under the bed
- 1 160 x 200 double bed semi island bed
- LED lighting, 2 reading lights
- Blackout curtains
- Bolon floor covering

4. Floating guest bathrooms (optional floating guest suite)

- 1 private bathroom with separate polyester monobloc shower
- 1 wash basin with storage beneath and a high mirrored item of furniture
- Freshwater electric toilet
- LED lighting
- Bolon floor covering

5. Forward cabin

- LED lighting
- Door access on stair landing
- Semi island bed 160 x 200 double bed
- Opening hatch in the ceiling with blackout curtain
- Opening porthole in the hull

- Veneer and ALPI
- 2 wide storage shelves of the port and starboard sides
- A storage drawer under the bed head
- Technical access to the bow thruster (optional or included in the Premium version)
- Unit comprising a storage wardrobe and chest of drawers
- Bolon floor covering

6. Forward bathroom

- 1 bathroom that can be used by the whole crew with a separate polyester monobloc shower
- 1 wash basin with storage beneath and a high mirrored item of furniture
- Freshwater electric toilet
- LED lighting
- Bolon floor covering

7. Skipper's cabin (optional)

- Located in the rear starboard garage and accessed by deck hatch catwalk
- Ventilation hatch
- Bed 200 cm x 60 cm
- Electric toilet
- Hot and cold water wash basin
- Storage
- Veneer
- LED lighting

L. KITCHEN

- Panoramic kitchen with a huge synthetic resin work surface with built-in washboard
- 1 4-burner gas hob
- Built-in stainless steel 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
- Separate waste bin opening built into the work surface with access by a side door to remove bags
- Lighting by LED spotlights in the ceiling
- LED lighting

- Bolon floor covering

M. COCKLOON (trademark)

1. Description

- This is a genuine innovation which provides accommodation for up to 12 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.
- An outdoor kitchen island (optional) with an additional fridge, sink, waste bin.
- LED lighting
- Bolon floor covering

N. CHART TABLE DESK AREA

- Panoramic views in the direction of travel.
- Large chart table desk Length = 160 cm, width = 75 cm with storage drawer
- Flap
- Vertical 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
- Headroom below deck 2 m
- LED lighting
- 3 x 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. Lateral storage areas

- Huge shelves accessible by the central walkway with headroom below deck of 2 m, large amounts of storage space on the port and starboard sides.

2. Access to the machine room at the rear

- Access to the machine is facilitated by ample headroom of 1.95 m
- 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 75 hp engine with 12 V cable harness
- 1 12 V 110 amp alternator
- 1 12 V 50 amp OPTIMA starting battery
- Folding propeller
- Sea water filter
- Engine control cabled to the helm station
- 24 V lighting
- Hold ventilation: naturally aspirated and forced extraction through the rear transom
- Soundproofing of the engine compartment by an insulating door
- Fuel system, fuel filter, fuel tank outlet stop valve
- 240 mm diameter bow thruster, double helix, 24 V
- Push-button thrust control mechanism on the steering console

Q. MOORING SYSTEM

- 4 winches 16 mm diameter unit length = 15 m
- 6 fenders 300 mm diameter 800 mm height
- 7 mooring cleats