

## Specifications BORÉAL 55.2

### 3 CABINS and a possibility of 4<sup>th</sup> cabin with 2 bunk beds (06/2023)

#### CHARACTERISTICS

- Length Overall (LOA):	17.12 m
- Length at the Waterline:	14.47 m
- Beam:	4.94 m
- Beam à Water Line:	3.91 m
- Draught:	1.20/3.18 m
- Ballast in lead:	6 600 kg
- Light displacement:	20 500 kg
- Displacement loaded:	24 700 kg
- Standard Engine:	75 hp
- Sail Area:	145 m <sup>2</sup>
- Mainsail:	71 m <sup>2</sup>
- Genoa:	74 m <sup>2</sup>
- Staysail:	42 m <sup>2</sup>
- Spi	180 m <sup>2</sup>
- Capacity Fuel (standard + optional) :	1 250 l
- Capacity Water:	1 500 l

Architecture & conception : Jean-François Delvoye

#### CONSTRUCTION

##### Hull

Triple chines on frames and floating stringers  
5083 and 5086 H111 aluminum  
Mig and Tig welding in Argon controlled by sweating

##### Structure

120 X 10 Ribs, 12 X 40 stringers, floor-plate thickness 10 mm  
Water-tight collision bulkhead 2.30 m behind the bow  
Water-tight bulkhead at the rear, before rudder post and dagger boards  
Flat keel 120 X 10, enhanced to 300 X 30 at the forefoot  
Chain plates and reinforcements under chain plates integrated into structure  
Beams 120 X 10  
Tube embedded in the beams to bring the chain to the anchor locker at the foot of the mast.  
Engine cradle and sternpost

##### Skin

Keel plate 12 mm, bottom plate 10 mm  
Chines: lower 8 mm, middle 6 mm, top 5 mm  
Deck, roof, cockpit: 4 and 5mm  
Transom: 6 mm

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## **Appendages**

### Swinging centerboard

NACA profile centerboard, flat structures of 10 mm, 8 mm skin

Well 8 mm reinforced by ribs and a T-shaped structure of 50x50x5

Shaft in ERTALON diameter 120

2 lines to lift and lower the centerboard (line to lift brought back to the cockpit)

### Daggerboards

2 lifting dagger boards in polyester (fuse) in their casing at the rear

### Rudder

Single rudder in aluminum, NACA profile, structure in flats of 8 mm, 6 mm skin

Rudder stock diameter 100 mm, self aligning Ertalon bearings

Emergency tiller

## **Ballast**

5 500 kg, below the bottom plate, in the keel core, made of massive lead, insulated and embedded in sealing resin and welded in watertight compartments.

## **Tanks**

Deck fillers (1+2 diesel, 2 black water, 2 water)

Diesel: 900 liters in the keel embryo

2 additional lateral tanks 375 l (optional)

Fresh water: 1 500 liters in 2 tanks build into hull on both sides of the centerboard casing.

Tanks painted with food quality paint.

## **Front peak**

Rails in the fore peak (1 each side to ease hanging fenders and mooring lines)

## **Deck**

Bow fitting with double anchor roller and aluminum tube under deck bringing the chain to the anchor locker

Chain locker at base of mast, water drains into the sump, support for windlass and rollers

8 welded cleats

Chain plates 80 X 20.

All reinforcements for attaching rails and winches.

9 Emplacements for hatches.

4 bookings for Plexiglas fixed in the upper skin

9 windows in the roof with double glazing

2 reservations for recessed Plexiglas in the doghouse.

1 watertight door in aluminum in the doghouse

A large rear cargo with 2 access panels

Separate storage for 2 gas bottles (13 kg)

Sail locker in the front with access by Goiot hatch

1 location for life raft

Lifting stern platform with integrated bathing ladder

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## STANDARD EQUIPMENTS EXTERIOR

### **Rigging and sails**

#### Rigging

1 anodized aluminum mast with double pushing spreaders, length 21,50 m  
Rigging in single strand stainless steel  
1 anodized aluminum boom  
1 mast base (deck stepped mast)  
2 Winch 2 speed 50 AST (Lewmar)  
1 genoa furler Profurl LC42  
1 mainsail halyard, 1 topping lift and 1 mainsail sheet.  
1 mainsheet system with webbing on the cabin roof.  
1 outhaul of the mainsail and 3 reefing lines brought back to the cockpit  
1 genoa halyard and 2 genoa sheets  
2 lines to lift and lower the centerboard (line to lift brought back to the cockpit)  
Rigid vang  
Staysail on furler (optional) with halyard, 2 sheets & running check stays (optional)  
Navigations lights as internationally approved (LED)

#### Sails

Mainsail with battens (Elvström, Dacron, horizontal cut) and 3 reefs 71 m<sup>2</sup>  
Genoa on furler with UV protection strip (Elvström, Dacron, horizontal cut) 74 m<sup>2</sup>,  
Staysail 42 m<sup>2</sup> (optional)

### **Deck Equipment**

#### Goiot hatchest

1 x 490 x 490 forward sail locker  
2 x 440 x 440 forward cabin  
1 x 390 x 240 front heads  
1 x 390 x 240 starboard gangway  
2 x 490 x 360 saloon  
1 x 390 x 240 aft heads

#### Portholes and windows

2 opening windows in the side of the roof Lewmar Size 3  
2 opening windows in the side of the cockpit Lewmar Size 4  
4 fixed hull ports (2 in forward cabin, 1 in each aft cabin)  
2 smoked Plexis 15mm in the Dog House  
4 transparent Plexis at the rear of the doghouse  
9 windows in deck saloon with double glazing

#### Recoveries of deck and bridges

Cockpit seatings & cockpit floor covered with synthetic teak  
Painting of deck PU white until deck line  
Anti Slip PU Sicomin Fullgripp on deck and roof (grey)

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### Safety

Tubular handrails in aluminum on the roof, vertical part of dog house and steering columns  
2 pulpits with support beam and 2 pushpits, 2 granny bars at mast  
8 simple stanchions and 4 entrance stanchions  
4 mm single strand lifelines with fixed clevis & pelican hooks  
2 Lifeline system all long the boat till the bow  
4 Wichard padeyes in cockpit

### Lewmar Winchs

2 primary winchs for genoa 2 speed self tailing 65 AST  
2 secondary winchs for mainsail sheet 2 speed self tailing 55 AST  
1 central electric winch from Antal  
2 x 5 Lewmar jammers around central winch  
3 winch handles  
2 genoa rails with car  
Principal lines brought back to central winch

### Ground tackle

Windlass 12 V 1500 Watt for 12 mm chain gypsy and wrapping end.

### Cockpit:

2 steering columns, one with single engine control lever and system of steering cables  
Enough space to build in plotters, pilot and other control panels  
2 Steering wheels diameter 900mm  
Leather on the 2 steering wheels  
Cockpit table with a compass

## **STANDARD EQUIPMENT INTERIOR**

### **General**

Insulation: Extruded polystyrene with a thickness of 80 mm under the bridge, 60 mm under the roof and 80 mm along the hull above the waterline and cork sprayed on frames.  
Joinery made of solid wood and veneer in natural Ash (or in oak - optional)  
Main bulkheads in 15 mm plywood  
Plywood furniture in 10 mm plywood  
Soles in 15 mm plywood  
Inspection traps - wherever possible - fixed part fitted around the bulkheads and furniture to facilitate the opening and prevent friction  
Linings in white Comacell and white Sky  
Quality Marine Hardware  
Magnet and door stop on each door  
Upholstery saloon in Stamskin  
Mattress foam thickness of 100 mm

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### 2 Aft cabins

Port aft cabin with double bed

Starboard aft cabin either with doubled bed either with two bunks (bunk/storage)

Configuration as technical cabin optional

Storage lockers under each bed, 1 locker down the side

1 hanging locker/1 closet

1 ceiling light, 2 reading lights, 1 socket 12 V

### Forward Cabin

1 double berth with storage and drawer under bed and 2 individual mattresses

2 ceiling lights and 2 reading lights, 1 at each headboard, 1 socket 12 V

1 hanging locker, 1 office desk (starboard if not 4<sup>th</sup> cabin), several cabinets

### Deck saloon

Raised deck saloon in U shape with view,

Saloon table convertible into an additional double bed (with adapted upholstery, taylormade)

Upholstery in Stamskin (Optional with a lot of color choices)

L-bench with important storage volumes

1 bar furniture, 2 cabinets,

1 library shelving,

2 cabinets

1 central table with toe rail,

Back rest on central seat of saloon

4 ceiling spotlights

### Galley

1 Stainless steel sink bowl with single lever hot and cold water under pressure

1 sea water foot pump and spout

1 additional foot pump in kitchen

1-gimballed 3 burner gas oven ENO with pot holders and electronic ignition (GN Cooker optional)

1 fitted refrigerator with 2 drawers 144 liters

2 cabinets for crockery & 2 lower cabinets

1 Stainless steel handrail,

3 ceiling spotlights, 1 red (for the night), 1 socket 220 V

1 manual gas stopcock with gas alarm (and remote solenoid optional)

### Watch post/chart table in doghouse

Panoramic chart table with grey panel for navigation instruments

1 curved seat with its cushion covered in Stamskin

1 hanging locker behind the seat (to dry wet gear)

1 ceiling light,

1 white/red fixed light for night passages,

1 socket 12 V & 1 socket 220 V

Passage to forward cabin: location for Refleks heater (optional) and

**either** work bench with heavy duty drawers for tools, removable vice (optional)

**either** 4<sup>th</sup> cabin with 2 bunks for crew

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### Front heads

- 1 manual marine toilet
- 1 cabinet with sink, mixing faucet and storage
- 1 separate shower with door, shower tray and mixing faucet shower
- 1 mirror,
- 2 ceiling spotlights

### Aft heads (starboard)

- 1 manual marine toilet
- 1 cabinet with sink and mixing faucet/shower
- 1 shower tray
- 1 mirror,
- 1 ceiling spotlight

## **WATER AND DRAINAGE SYSTEM**

- Pressurized central water unit 15 l/min, self priming and with electronic control
- Water Heater 220 V, 40 liter with heat exchanger on engine
- 2 holding tanks for black water,
- 1 holding tank grey water in front heads
- Shower (cold and warm water) in the cockpit

### Drainage

- 4 electric bilge pumps 12 V
- 1 manual bilge pump

## **ENGINE**

- Engine Yanmar 4JH80 hp  
(Yanmar 110 hp optional)
- Electrical bipolar installation, mounted on flexible "Silent Blocks"
- Acoustic insulation with absorbent foam and visco-elastic mass
- Ventilation ducts for fresh air
- Control panel with alarms in the companionway
- Access through aft cabins and companionway
- Single lever engine control at port steering column
- Fixed three-bladed propeller

## **ELECTRICITY**

- 1 alternator on engine 12 V/115 A
- 1 Sterling alternator to battery charger
- 1 shore plug 220 V
- 1 battery charger 220 V / 12 V
- 1 charge distributor
- 5 batteries (1 dedicated to the engine, 4 service batteries of 165 Amps) (Option 2 batteries 165 Amps additional)

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1 Philippi Battery and tanks Manager

1 panel 220 V

Circuit 12 V – Circuit 220 V

1 electric panel bipolar 12 V dedicated to living area 15 functions with bipolar leakage tester, voltmeter and circuit breakers

1 electric panel bipolar 12 V dedicated to navigation in doghouse

Gauges diesel (1), water (2), grey water (1), black water (2)

Insulation Transformer Victron Auto 110V- 220 V

### **CATHODIC PROTECTION**

1 sacrificial anode on the hull

2 sacrificial anodes on the centerboard

2 sacrificial anodes on the rudder

1 sacrificial anode on the propeller

1 sacrificial anode on the rope cutter (Rope cutter optional)

### **HULL PROTECTION**

Black antifouling (2 layers) on the hull and appendix

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