



ONE OFF 45 MOTOR SAILER BARRACUDE DESIGN



DE VALK
YACHT BROKERS

ONE OFF 45 MOTOR SAILER BARRACUDE DESIGN

BROKER'S COMMENTS

"This 45-metre aluminium vessel was built by Alu Shipyard, a shipyard specialised in advanced aluminium construction. Construction began in 2006 in a modern, purpose-built production facility and was carried out under the supervision of RINA, ensuring high standards of quality and safety. By 2008, the hull and superstructure were completed. The aluminium construction provides a strong and lightweight platform, suitable for completion as a luxury yacht, expedition vessel. An attractive opportunity to acquire a substantial aluminium yacht (sailing or motor) at an advanced stage of construct"

Arjen Hoeksma

SPECIFICATIONS

Dimensions	45,06 x 9,40 x 3,60 / 6,65 (m)	Builder	Alu International Sp
Built	2006	Cabins	
Material	aluminium	Berths	
		Hp/Kw	(hp), (kw)
Asking price	EUR 1.590.000 (vat: not paid)	Lying	Poland

CONTACT

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DISCLAIMER

These particulars are given in good faith as supplied but cannot be guaranteed.



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GENERAL

Model	ONE OFF 45 MOTOR SAILER BARRACUDE DESIGN
Type	motorsailer
LOA (m)	45,06
LWL (m)	38,87
Beam (m)	9,40
Draft (m)	6,65
Draft min (m)	3,60
Year built	2006
Builder	Alu International Sp
Country	Poland
Designer	Studio Scanu
Hull material	aluminium



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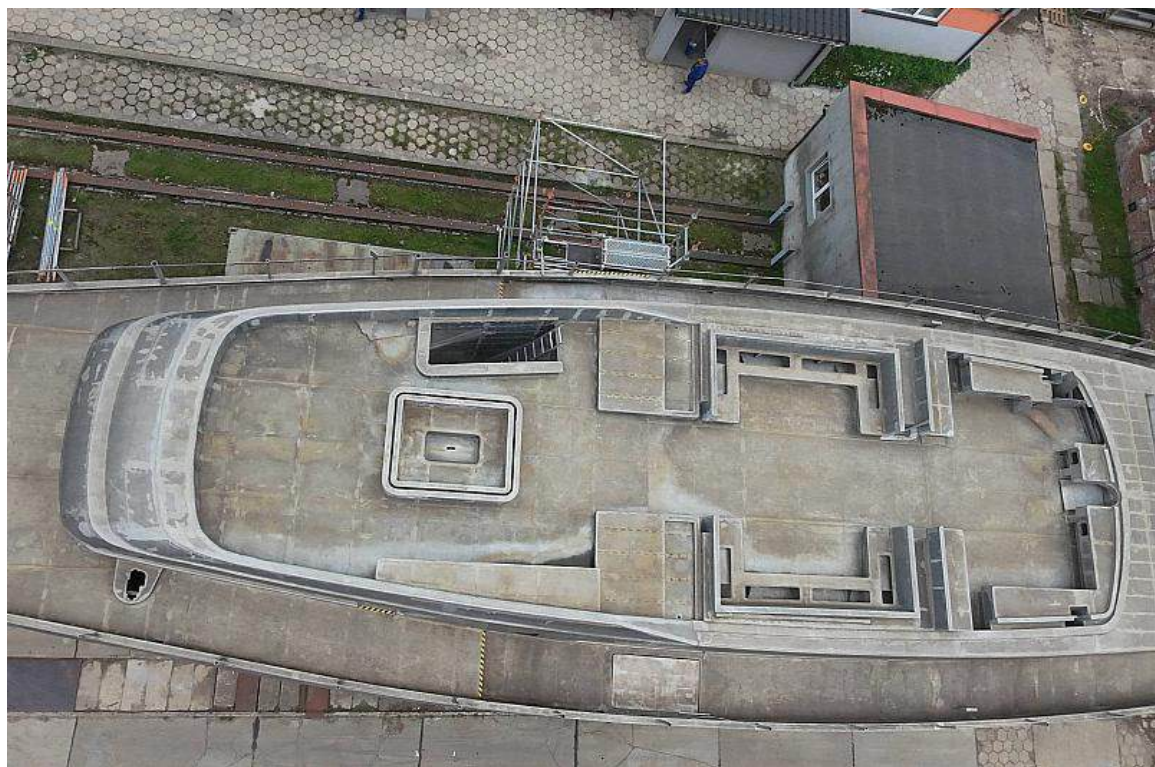
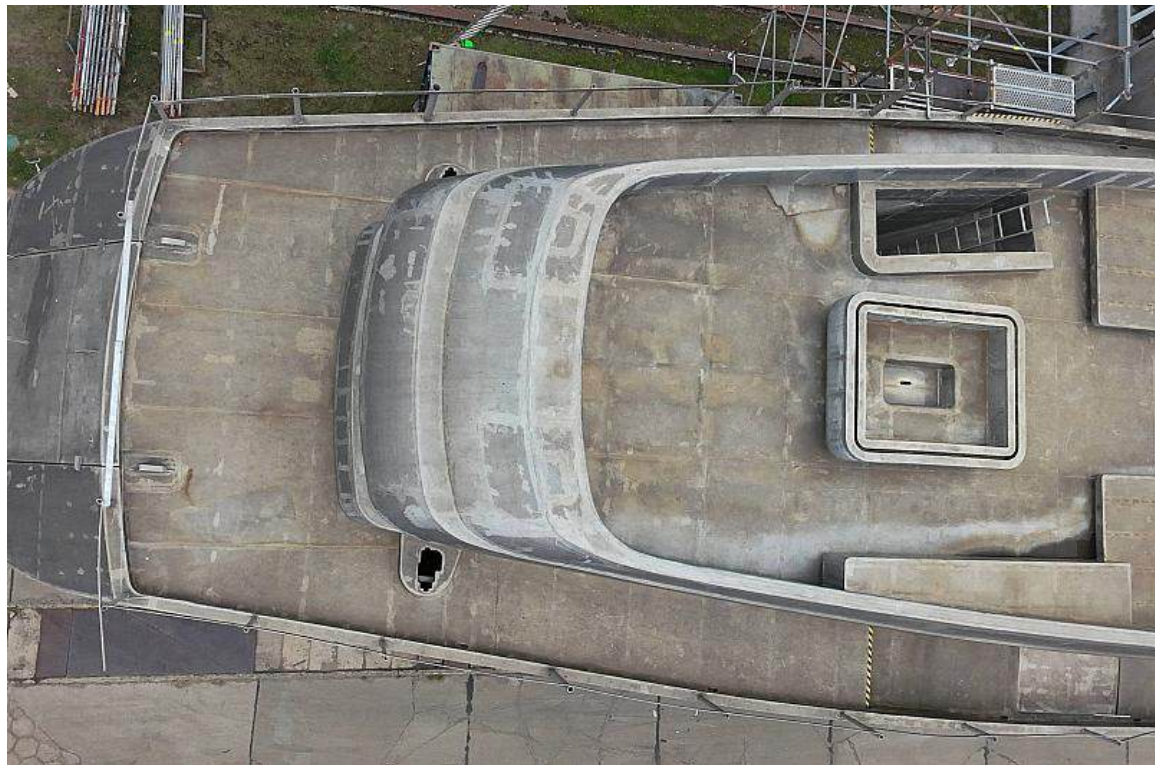
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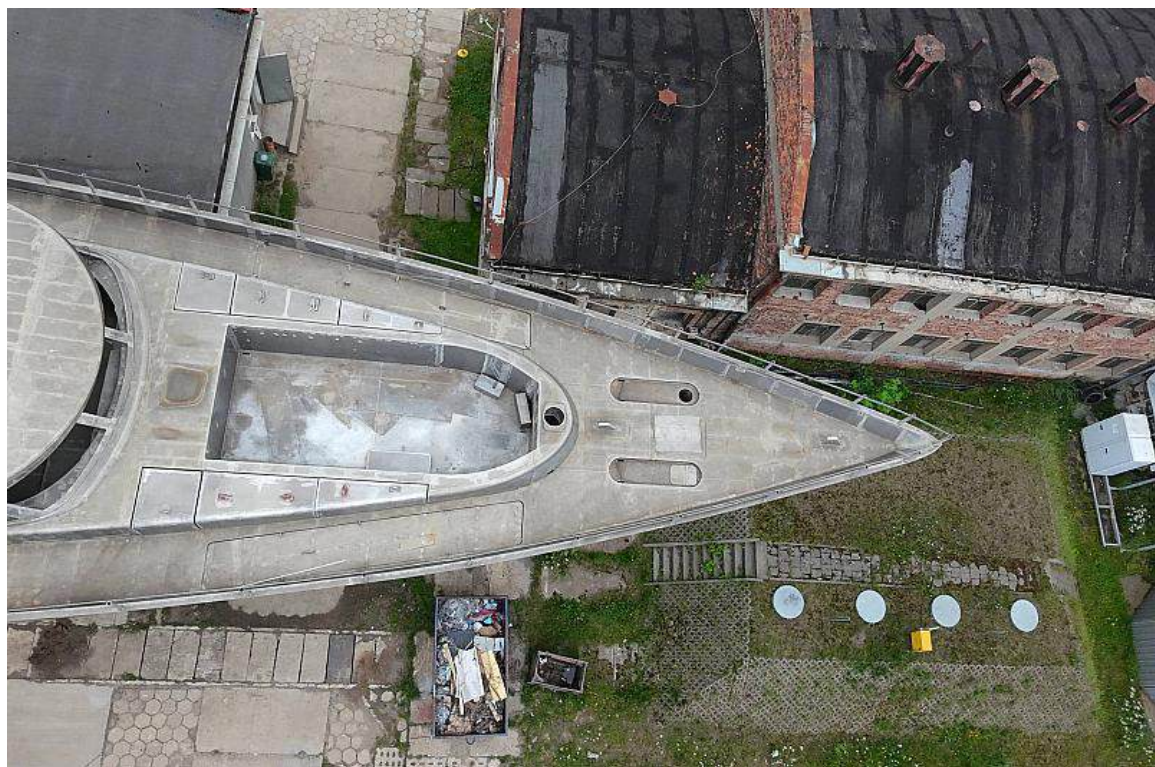
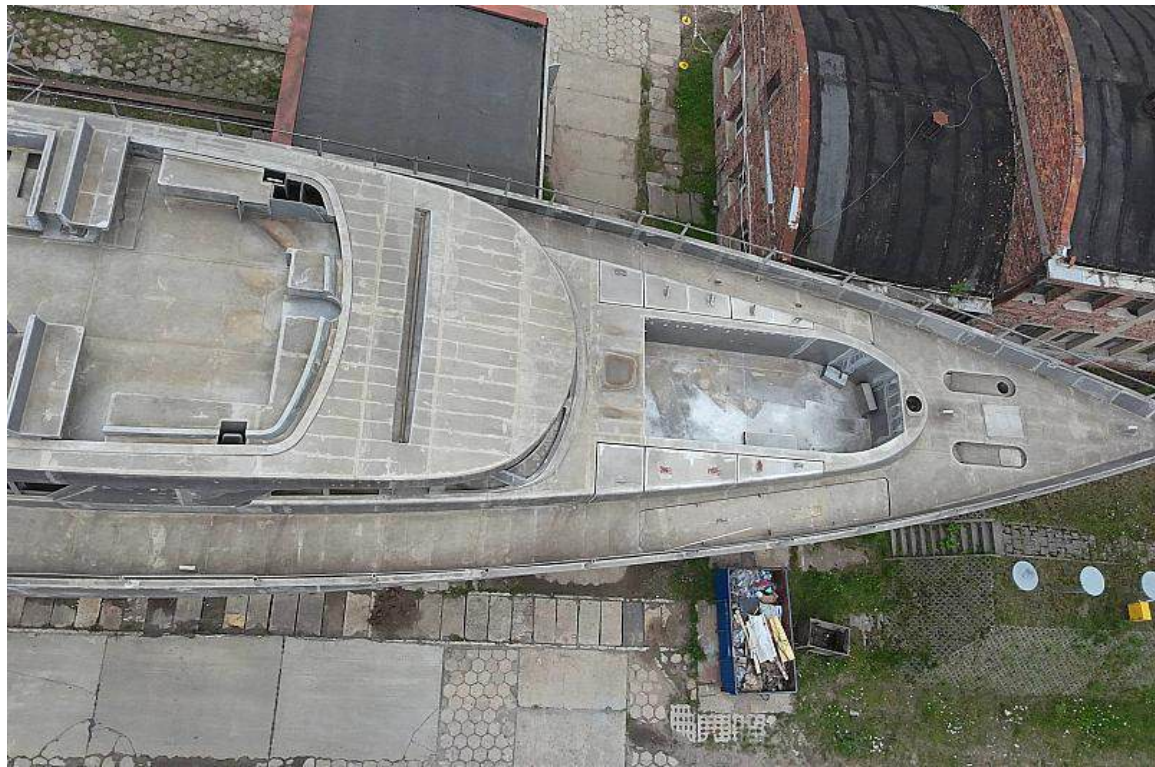
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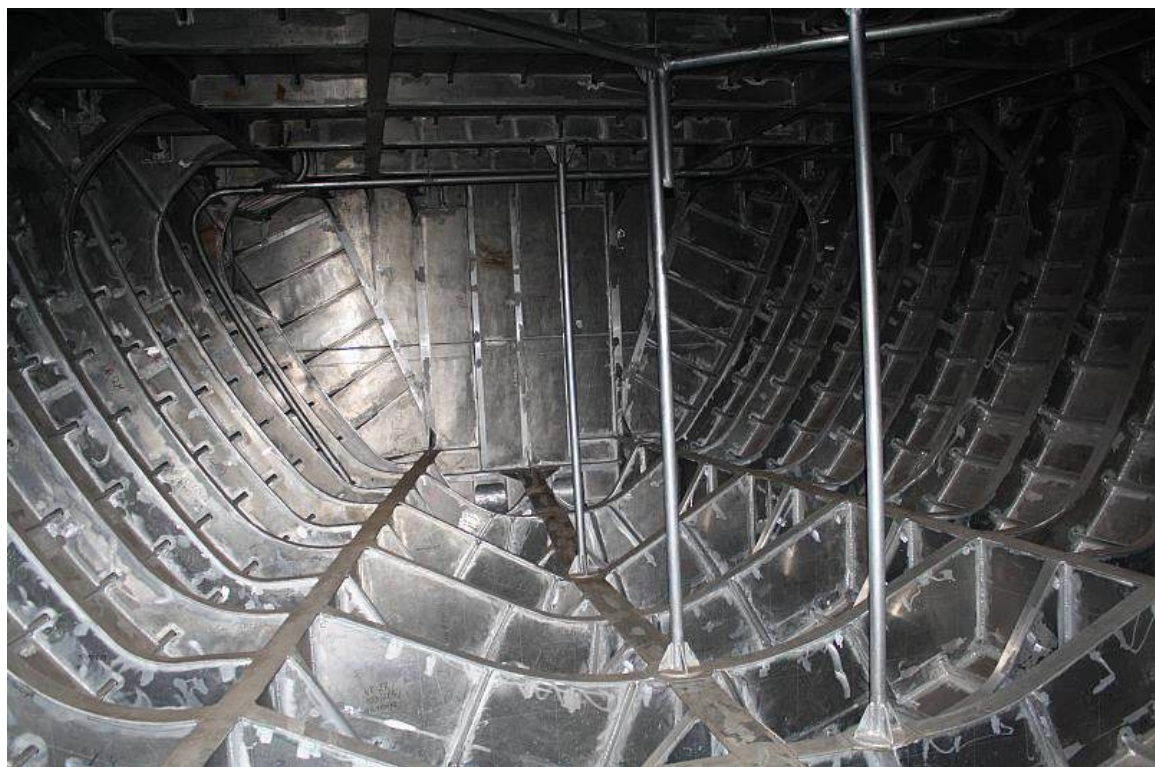
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Dear Sir or Madam,

It is our pleasure to present to you a vessel that holds a truly exceptional place in the history of Alu International. This project became a point of unity for our entire company—bringing together our production teams, engineers, and the Management Board around a shared ambition. It marked the beginning of a new chapter for our family-owned shipyard.

For more than 25 years, Alu International had been known worldwide as a builder of some of the most demanding aluminium yacht structures. Yet this vessel was intended to become our first fully outfitted, turn-key yacht—designed, constructed, and completed entirely within our shipyard. Our long-standing reputation for quality, together with the trust of our clients, gave us the confidence to take this bold step forward.

From the very first stages, every member of our team poured their craftsmanship, experience, and personal dedication into this project. Our cooperation with the Client was exceptionally strong; he actively participated in the development of the vessel and demonstrated genuine passion for its creation. The technical documentation—prepared by the renowned designer Iñigo Toledo of Barracuda Yachts Design—provided a precise and masterful foundation for a yacht of remarkable potential and elegance.

Construction began in 2006 in our newly built, state-of-the-art production hall, designed to accommodate advanced aluminium projects. The entire process was carried out under the supervision of the classification society RHINA, ensuring the highest standards of safety and engineering excellence.

In 2008, we completed the hull and superstructure. With our team prepared for the next step—full outfitting of the yacht—we were ready to start discussions regarding the continuation of the project. Unfortunately, the global financial crisis, which severely affected Spain, forced our Client to abandon his dream of completing the vessel he had invested so much heart and effort into.

Today, this exceptional project receives a new opportunity to reach the open seas. It still carries within it the precision, artistry, and passion of the people of Alu International. We believe that in the hands of a new owner, this yacht will finally fulfil the purpose for which it was designed—to become a truly distinguished vessel of character and soul.

With our best regards,

The Management Board of Alu International

Scope of Completed Structural Elements

- **Aluminum hull** – complete, with watertight bulkheads and integral tanks
- **Superstructure** – basic structure completed, including aluminum furniture construction on deck
- **Daggerboard** – trunk and foundations completed
- **Centerboard** – full hydrodynamic element, fitted to the daggerboard trunk
- **Rudder** – rudder blade with reinforcements around the stock area
- **Propulsion preparation** – foundations for engines, generators, drive shafts, and bow thruster
- **Deck** – aluminum structure prepared for teak finishing
- **Aft gate** – structure with hinges completed
- **Technical systems** – engine room and garage ventilation, foundations for watermakers, generators, anchor windlass, and deck drainage system
- **Anode protection system** – anti-corrosion protection for the hull
- **Deck equipment** – fittings for gangways, ladders, hatches, and flybridge steering console
- **Rigging** – foundations for winches and equipment to handle sails (gennaker, genoa)



45meter motor-sailing Yacht

ALU International /

Yacht Building Management

on the basis of a Barracuda / Studio Scanu Project

elegant interior

Certificate from Rina

Modern attractive design

designed by famous Barracuda Yacht Design as one off sailing yacht
built by good reputation manufacturer of high quality boats

Smooth ride

Modern attractive design



Distinctive features included a long main deck superstructure hosting a steering position forward, internal dining area and long saloon with a continuous view arrangement.

On top of which sits a distinctive flybridge with plenty of space for handling the controls.

A large and practical garage with swim platform provides flexibility and great access to the sea.

A large aft terrace on the main deck provides a comfortable and fairly well protected space for further relaxation.

This spacious yet high performance hull has been designed using the most sophisticated methods available.

45m more closely resembles a sailing yacht than a motor sailor, even though primary propulsion will be provided via twin 725hp engines for a cruising speed of 14knots.

A fully carbon-fibre cutter-style rig, with hydraulic controls and captive winches and sail area of 880sq.m will ensure the new 45m

elegant interior





Other key external features include a 60ft fly-bridge, where the main steering and sailcontrol systems are located, and where plenty of informal seating and sun bathing areas can be found.

From a discreet position on the foredeck, a 19ft dinghy can be launched via crane, whereupon this space doubles as a plunge pool with dinghy removed. At the stern a large hydraulic door opens to become a swimming platform, whilst a large under deck garage will house an additional dinghy, jet-skis, scuba equipment and other fun and safety related equipment.

built by good reputation manufacturer of high quality boats

Certificate from Rina



Underneath the hull a pneumatically operated dagger-board offers the flexibility of deep and shallow draught cruising. Extending from 3.4m draught when raised down to 6.85m fully extended.

Inside the new yacht an un-fussy, modern and simple look and feel will prevail. Above all the requirement was to provide a welcoming and very comfortable environment for the owner and his young family.

Wenge will be used for most of the furniture and panelling, which will be trimmed with leather and intended to contrast well with the mainly teak-laid flooring.

designed by famous Barracuda Yacht Design as one off sailing yacht

Considerable thought has been given to the use of internal lighting on board and to the intelligent installation of the air conditioning system and location of the outlet vents.

The main deck houses the formal dining and saloon areas and access to the aft and side deck areas with further external seating. At the forward end is the fully enclosed bridge area with captains cabin immediately behind.

A feature spiral staircase located just to the rear of the mast leads down to the guest cabins via a central lobby area on the accommodation deck.

A discreet separate crew stairway has been incorporated from the day pantry, offering access to the galley, laundry and service areas, without the need to enter the dining area unnecessarily.

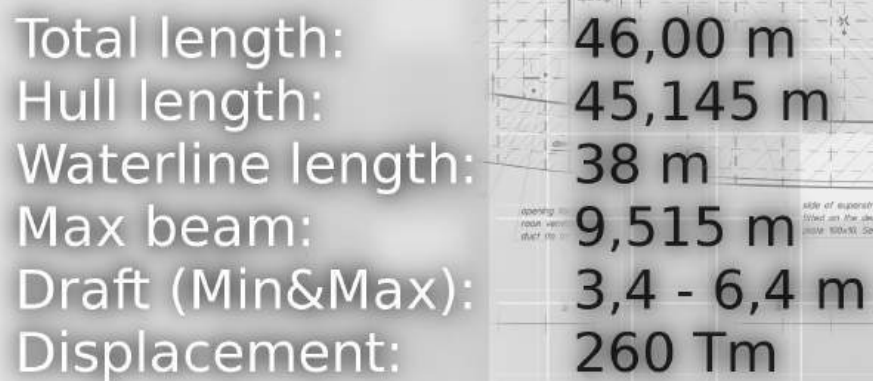


Towards the rear of the 45m accommodation for eight people comprises a full width owner's stateroom, with two en-suite bathrooms, and doorway access to two twin berth children's (or guest) en-suite cabins. A further en-suite double cabin is situated slightly further forward on the starboard side.

At the forward end a maximum eight crew can be accommodated, in three en-suite bunkbed cabins plus the Captains cabin on the main deck. A large laundry, galley area and crewmess complete the services area of the boat.

The engines and twin generators are located in the engine room aft of the accommodation area, with direct access to side deck and aft garage.

Smooth ride



Ballast: 80 Tn Engine: 2 x 725 Hp.

Water:	9400 lt
Fuel:	40000 lt
Sail Area:	880 m ²

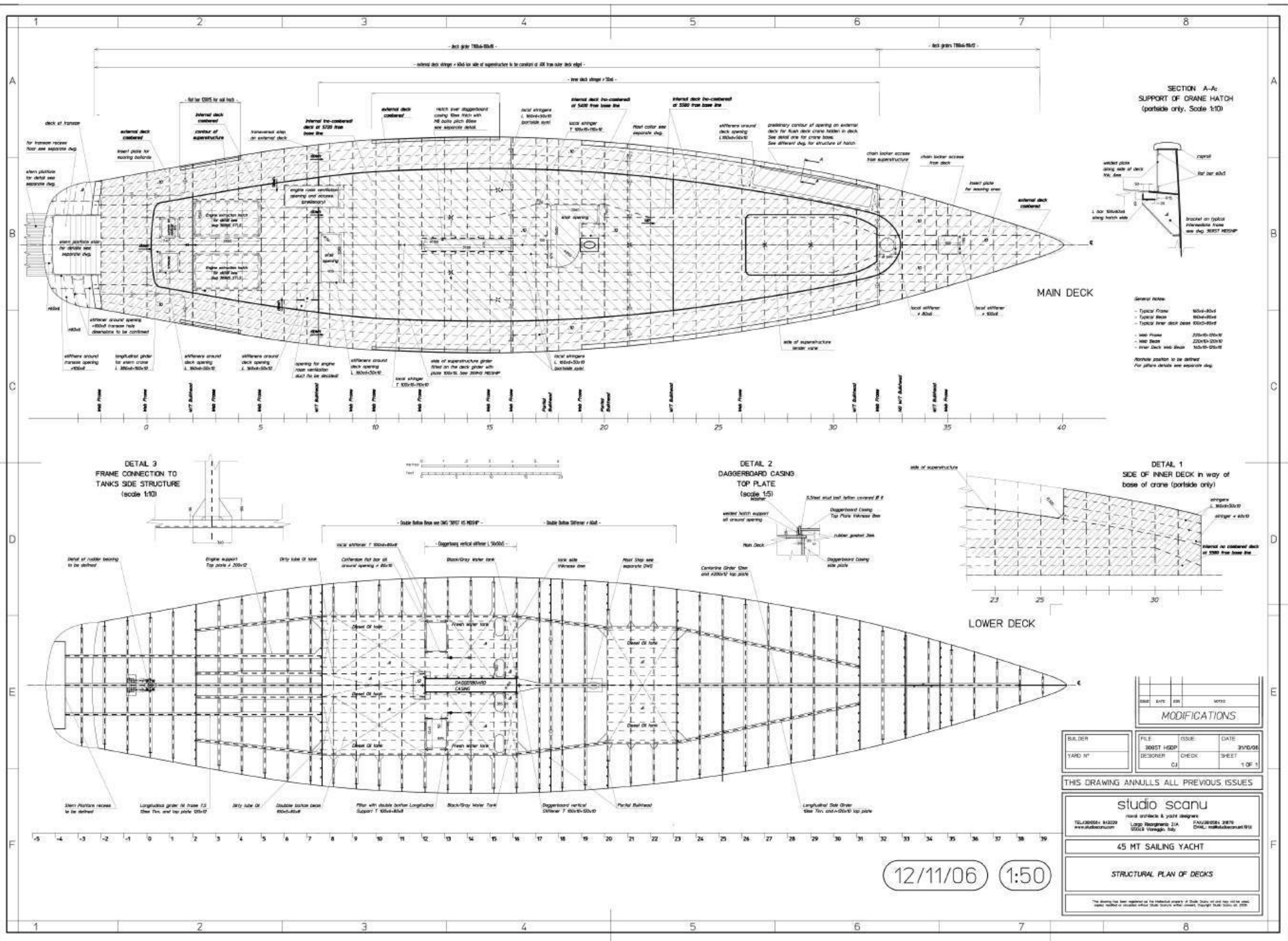
Naval Architecture: Studio Sacnu/Barracuda
Interior Designer: Barracuda



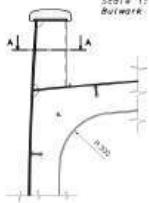
LOWER DECK



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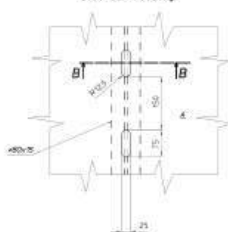
DETAIL 1
Scale 1:10
Bulwark



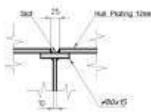
SECTION A-A
Scale 1:10
Cross section of bulwark & gunthorn



DETAIL 2
Scale 1:5
Slot for welding

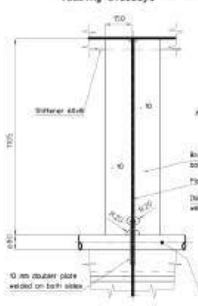


SECTION B-B
Scale 1:5
Slot section



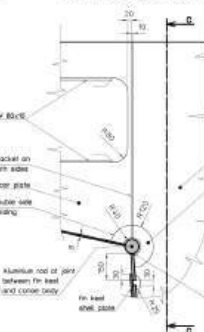
NOTE: Slots are not to be filled with welding

SECTION C-C
Scale 1:10
Keel to hull connection looking sideways

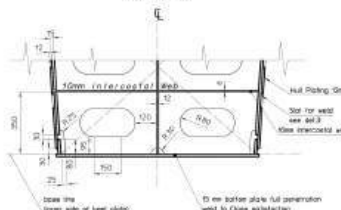


NOTE: All welds to be full penetration to ensure structural integrity

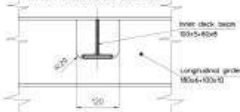
DETAIL 4
Scale 1:10
Keel to hull connection



DETAIL 3
Scale 1:10
Keel bottom



SECTION D-D
Scale 1:5
Inner deck beam section



DETAIL 5
Scale 1:5
Hull Bottom Stringer 80x8



DETAIL 6
Scale 1:5
Hull Side Stringer 80x8



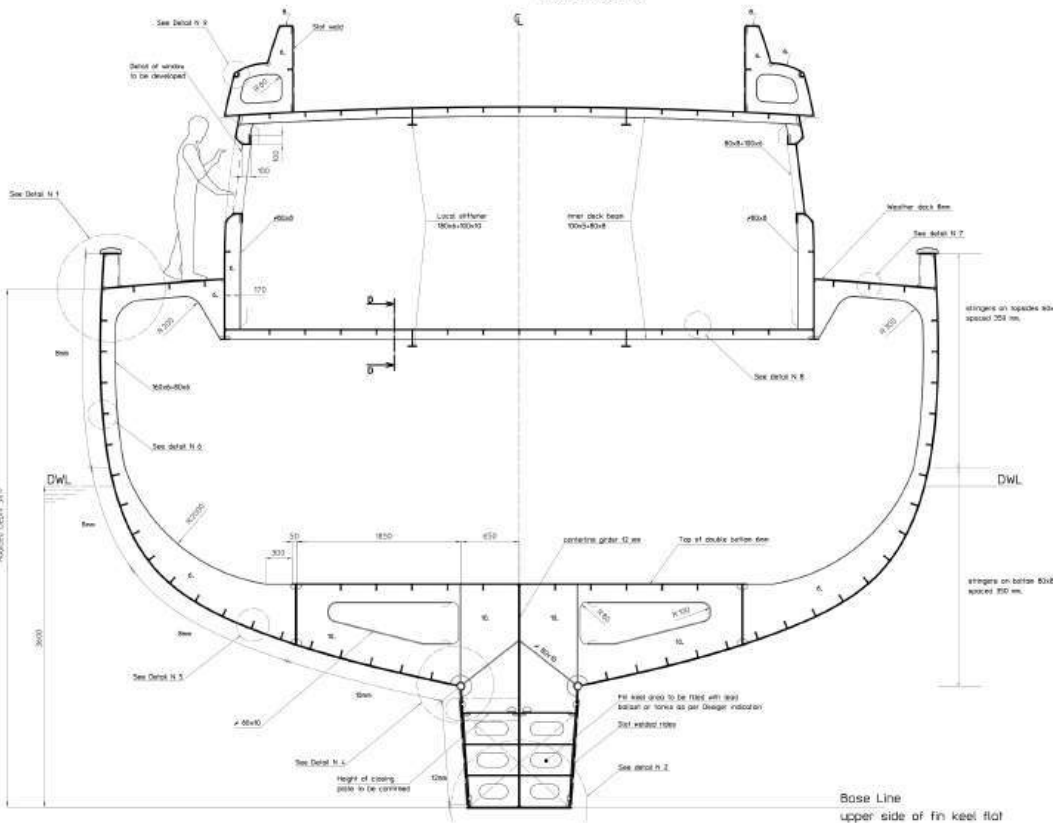
DETAIL 7
Scale 1:5
External deck Stringer 80x8



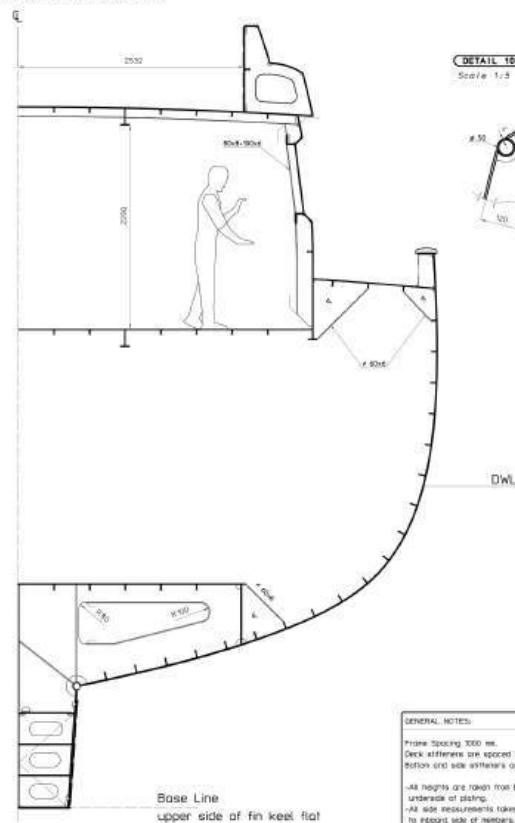
DETAIL 8
Scale 1:5
Internal deck Stringer 80x8



MIDSHIP SECTION



TYPICAL INTERMEDIATE FRAME



DETAIL 10
Scale 1:5



GENERAL NOTES:
Frame Spacing: 1000 mm.
Deck stiffeners are spaced at 400 mm.
Bottom and side stiffeners are spaced at 250 mm.
All heights are taken from Base Line to underside of plating.
All side measurements taken from Centreline to nearest side of members.

HULL CONSTRUCTION MATERIAL:

ALUMINUM ALLOY 5083 H 321
Unwelded yield strength: 275 N/mm²
Unwelded ultimate tensile strength: 300 N/mm²
Welded yield strength: 165 N/mm²
Welded ultimate tensile strength: 270 N/mm²

MAIN DIMENSIONS

LENGTH OVERALL	L.O.A. =	45 m
WATERLINE LENGTH	L.W.L. =	38.8 m
MOULDED BREADTH	B. =	9.40 m
MOULDED DEPTH	D. =	3.68 m
SCANTLING DRAFT	T. =	3.60 m
DISPLACEMENT	Δ =	307 TONS
MAIN ENGINES		2x700 HP
SAIL AREA		1006 m ²
FRAME SPACING		1000 mm
MAX SPEED		16 Kts

Classification Requested:
RINA Yacht Class 100A, 1Y Maltese Cross
Charter Service Class

R.I.N.a Reference: / / /

BUILDER	FILE 20051	ISSUE	DATE
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studio scanu
10100 ROMA & JUNE 2006
Largo Borgognoni 2/A - PIAZZA VENEZIA 10/11
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45 m SAILING YACHT
HULL STRUCTURES
MIDSHIP SECTION

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