

ALTINEL SHIPYARD

Military Crafts

42' FAST PATROL BOAT

SAT



Principal Characteristics

Construction Material	: Fiberglass
Hull Form	: Planning hull – Deep Vee Mono hull
Length (Loa)	: 12.65 m.
Beam (B)	: 3.60 m. (at midship)
Draft (D)	: 0.75 m. (full load)
Height (D)	: 1.80 m. (at midship)
Fuel Capacity (approx.)	: 1700 Lit.
Watertight Bulkhead	: 4
Cabin Height	: 1.85 m.
Max. Speed (approx.)	: 45 Mile Per Hour
Cont. Speed (approx.)	: 40 Mile Per Hour
Endurance (approx.)	: 300 mile
DWT	: 1250 kg
Accommodations	: 12 seat in cabin 4 seat on the aft deck
Crew	: 2 persons
Environment	: Fully operational up to sea state 2
Class	: Dual Class (RINA & Turkish Lloyd)
Class Notation	: 100 / A / 1.1 Y
Standards	: SOLAS 74, IMO, ISO, TSE, NATO STANAGS



Propulsion

Engine Maker	: CATERPILLAR - USA
Model	: 3196 TA – E Rating
Power	: 2 x 492 KW (2x 669 HP) @ 2300 rpm
Gear Box Maker	: ZF – Germany / Italy
Model	: IRM 312 TS (Two Speed)
Reduction	: 1.195 – 1 : 1.432
Drives	: ZF Trimax 2200 I
Propeller	: SST; 6 blades; ROLLA

Electrical

Rectifier	: VICTRON – SKYLLA 220 V AC, 50 Hz., 1 Phase (input) 24 V AC (output)
Cables	: Marine Type
Batteries	: 2 x 200 A. Starter, 2 x 200 A. Service

Fire Fighting

Devices	: Remote Controlled CO2 System in Engine Room
Minimaxes	: 4 x 1 kg. At Cabin and Cockpit

Navigation

Radar	: JRC Scan Radar
GPS	: SIMRAD GPS (Plotter Chart) – CP 32
Fluxgate Compass	: SIMRAD – RFC 35 NMEA Compass

Communication

Marine brand VHF	: SAILOR – RT 2048 / D (DUBLEX & SIMPLEX)
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Weapons

Weapon Foundations	: Telescopic at both sides at rear for M-60
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General

This boat has been designed for;

- To accomplish the patrol mission various objectives,
- To transport the military personnel to the operation area.

This boat is designed for to be transported via air by plane or helicopter and via land by a trailer to the operation area.

This boat has been constructed as follows;

- Single deck,
- Sharp and curved bow, perpendicular transom.

The boat has been moulded by fibreglass material. The sections of the boat are described as follows;

- Fore pick, chain locker under the deck,
- Bow cofferdam,
- Transom cofferdam,
- Bow ballast tanks,
- Personnel cabin,
- Fuel tanks compartment (between two bulk heads),
- Engine room; above aft deck ,
- Aft pick and rudder section.

Ship Building Specification of this boat covers all technical aspects for the abovementioned objectives and performance. These technical aspects generally covers all ship building rules, standards, criteria, see keeping, construction, equipment and material. Also it explains how to apply design, project and workmanship with the understanding of quality.

During the design aspect and material selection, high reliance and low maintenance has been fore kept.

Faltinel Shipyard had done the following;

- Projects
- Design drawings
- Workmanship drawings
- Production coordination services
- Construction
- Production
- Integration
- Quality control.
- Get Class Society services
- Material purchasing
- Project management

During the design, construction and production phase of the boat, the following rules and standards has been applied;

- RINA and Turkish Lloyd (Dual Class)
- TSE
- IMO
- ISO
- SOLAS 74
- NATO (Navy) STANAGS

The project drawings had been approved by RINA, and construction and production had been surveyed by RINA and Turkish Lloyd (Dual Clas), and the boat has been certified 100 / A / 1.1 / Y class notification.