

General

Type	121 ft. Custom Designed Sloop
Naval Architect	Fuat TURAN
Designed by	Fuat TURAN- İlker KAYABAŞI
Interior Design	İlker KAYABAŞI
Builder	Decibel Spor Don. San ve Tic. A.Ş

Principal dimensions

Loa:	36.90 mt.
L dwl:	32.00 mt.
B max:	8.06 mt.
B moulded:	8.06 mt.
Draft:	3.70 mt.
H:	3.96 mt.
Displacement:	181 t.
Ballast:	35 t.

Classification

Details:

Classification:Turkish Loyd Class notation is described AS +1A5 (+)M Motor Sailer

Construction Details

Construction Material:

All frames are laminated mahogany.

Stringers are 3 layers and laminated mahogany.

Fastening of stringers to frames are provided by 18mm hot galvanized bolts.

Beam shelves and beam clamp are mahogany laminated with epoxy.

Hull planking are 30mm strip plank+ 3x8mm diogonal veneering. Material is mahogany wood. For adhesive bonding; stapler and epoxy resin are used.Top coat is provided by 2x300gr/m2 glass cloth.Stapler material is stainless steel.

Deck beams are also laminated mahogany.

Main deck is constructed with iroko wood Sikaflex deck caulking system.

Watertight bulkheads are constructed with 10mm marine plywood+50x50mm pine framework+50mm rockwool+10mm marine plywood.

In engine room iner sides of bulkheads have 30mm sound insulation.

Superstructures:

Superstructures side walls are (out to inner) 3x10mm marine plywood+110x90mm mahogany pillar.There is Rockwool between there pillars and at inner side 10mm marine plywood. Top of Superstructure will be paint on marine plywood. Also flybridge floors will be paint .

Keel:

Ballast keel construction steel has 10mm thickness and inner material is 35 tonnes.

Ballast keel bolts for hull connection are galvanized type and 32mm. Bolts are in double row.

Keel and keelson sternpost and stempost are made by mahogany laminated by epoxy.

Painting System

On hull surface there is two coat of glass cloth then epoxy filler Duratek brand and Hempel painting system on top of surface.

Furniture:

All the furniture and wall covering material are constructed with marine plywood (8,10,12,15,18mm) and 0,6-1,5mm cherry wood veenering will be applied onto them finishing will be polyester material and super shining wax. All cabins, corridors and salon floors will be carpet(cream color) on marine plywood. 3 mm laminated leatherette (cream color) with foam will be mounted on all cabins' and salon's ceilings. All mattresses will be handmade ergonomic foam type.

Bathrooms:

The bathrooms side walls are constructed with marine plywood covered with 6mm white acrylic surface material. Ceilings will be lacquer paint.

All the floors counter surfaces are constructed with marine plywood and 10mm white acrylic surface.

Aft master cabin toilet has electrical type closet. Saloon daily usage toilet and crew cabin toilet have also electrical type closet. Other cabins toilets' have domestic type closet.

Galley area:

Galley will be lined in cherry wood, lacquered and varnished according to interior designers choice and counter top will be acrylic surfaces, it will include the following equipment;

A sink, Franke

Electrical cooker, Siemens ET 885 MC21D

Oven, Siemens HB43 AT540 E

Microwave, Siemens HF24 6561

Hood, Siemens LC98 BB 540

Dish washing machine, Siemens SN 55 E 530 TR

Refrigerator, Siemens KD 56 NA I30 X

The galley will be completed with shelves, drawers and cupboards.

Propulsion System

Main engines:	Twin John Deere RG6081 2200 RPM 375 HP Marine Diesel Engines.
Reduction Gears:	Twindisc ratio 3:1
Propeller Shaft:	100mm Stainless Steel
Propellers:	1050mm. dia.(CuMnBr)
Bow thruster:	SP550 hyd P42.3Kw Main Engine PTO driven
Steering system:	Hidromarin twin piston driven hydraulic, triple stations with joystick control

Mechanical Systems

Fuel Tanks:	Steel Construction Total Fuel Capacity is 9000 Litres. Range at 10 knots : approx 1500 nautical miles
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Fresh Water System: Total Capacity 6000 Litres.
Pressure System:
Gianneschi 2 Ecojet 2B CE 24-230V 2x55L/min 60Lt
Accumulator tank.
Electric Boilers 2x75Lt isotherm
Reverse Osmosis System 240Lt/hr Idromar.

Grey-Black Water System:

Waste water treatment system will be Selmar brand
Total Capacity 5000 Ltrs.
All grey and black water tanks material will be high density poly ethylene.

Pumps:

Service pump: 2.4m ³ /h	Gianneschi ACB 331/B 1.5 Kw 36mt head
Coupled bilge pump: head 42m ³ /h	Gianneschi BMA 50 230V 2800 rpm 25mt
Fuel transfer pump: 2.4m ³ /h	Gianneschi ACB 80 230V rpm 4m head
Fire fighting pump:	Gianneschi BMA50 230V

Blowers:Gianneschi VCR 45 L/Cx4 (2+2)+ Fire damper

Air-conditioning:

The vessel will be air conditioned throughout with individual temperature control in all accommodation spaces with a suitable size chilled water central air condition system will be fitted as Marincold

Controls in all spaces to be digital. Special care to be taken on placing cabin temperature sensors. The heating of the vessel is to be performed by the same system as the air conditioning using warm ducted air controlled by the same individual thermostats in the accommodation spaces as for cooling.

Saloon	3x24.000 btu marincold fancoil
Galley	1x24.000 btu marincold fancoil
Guest Cab.1	1x12.500 btu marincold fancoil
Guest Cab.2	1x12.500 btu marincold fancoil
Guest Cab.3	1x12.500 btu marincold fancoil
Guest Cab.4	1x12.500 btu marincold fancoil
Owners Cab.1	2x12.500 btu marincold fancoil
Owners Cab.2	2x12.500 btu marincold fancoil
Capt.Cab	1x7.000 btu marincold fancoil
Stewardess	1x7.000 btu marincold fancoil
Crew Cab.1	1x 7.000 btu marincold fancoil
Crew Cab.2	1x7.000 btu marincold fancoil
Total capacity :	224.000 btu

Hydraulic Systems

Main engine PTO driven twin variable displacement pump

Bow Thruster Side Power SP550 HYD

Hydraulic driven 42kw Sleipner triple joystick controls on each control station

Anchoring system

Hidromarin Twin custom manufactured stainless steel anchor driven with double capstan steel custom manufactured windlasses, 2000 kg pulling capacity each 18 mm Anchor chain 180m x 2.

Windlass:

Windlass is hydraulic type and stainless steel. Chain diameter will be 18mm. These two windlasses are vertical type. Model of windlass is 2x HZI 2000 V .

Steering system:

Hidromarin steering Gear with hydraulic steering motors to be installed. Emergency steering system to be installed as required by classification society. A hydraulic power pack will be installed by Hidromarin, hydraulic pump and blocks will be Danfoss. Power pack will have power from PTO's on main engines.

Deck Hardware

Standing Rigging

Mast

There will be one mast on boat. Mast will be steel. Dimensions are given below:

Total Length(from inner keel) : 42 meters

Section dimension: 600x320 mm

Has 4 spreader on mast

Park Avenue style boom : 14 meters

Has mechanical boomwang system

Wires : 1x19 (12 mm , 14 mm, 16 mm, 19 mm) AISI 316 Stainless steel

Ropes on mast : Spectra brand and polyester material

Roller (furlings): Manual , 2 units (Admiral brand)

Sails : Genoa -> 165 m²

Jib-> 100 m²

Main sail-> 200 m²

Dack ron fabric + Layz bag system

All blocks will be Antal brand

Stoppers will be Antal brand

Vinches will be Antal brand

Vinches for Genoa will be 2x70 st model

Vinches for Main Sail will be 2x66 st model

Vinches at mast step will be 2 x 66 st model

Vinches on mast will be 1 x 66 st (electrical)

Liftins and terminals Hi-mod brand

Automation, Alarms, Security&Camera system:

All cabins have smoke detectors moreover in addition engine room and galley have heat detectors. There will be two cameras in engine room, the third one looking aft on fly bridge and and fourth will be on mast

Cathodic protection:

On hull surface there is two coat of glass cloth then epoxy filler duratek brand then finally epoxy paint.

120 kg zinc anodes will be fitted on hull surface with bolts and nuts.

Electrical systems:

AC Systems

220 VAC Shore Power system

220 VAC distribution systems

DC Systems

24 VDC Domestic system

12 VDC Navigational and emergency system

Grounding

Sacrificial anodes with electrical galvanic protection device and isolation transformer for shore power system

Sintered grounding plate for grounding electronic devices

Generators:

Aksa marine 2x44 kw main diesel genset(engine cummins)

Onan 27.5 kw nights gen set

Batteries:

AGM deep cycle type

Engine Batteries	2x	200 Ah
Domestic Batteries		2000 Ah
GenSet Batteries		160 Ah
12VDC Communication Batteries		180 Ah
Emergency battery		200 Ah

Electrical equipments (sockets, lambs etc.):

Switches and sockets will be Wimar brand with stainless steel covers.

All lighting lambs will be led type.

Waterproof lighting lambs will be used on main deck.

Lighting lambs on spreaders and mast will be led type.

Inverter Chargers:

Brand Victron Energy Systems 2 x 24/3000w Inverter
3 x 24/100 Ah Battery Chargers
1 x 24/140 Alternator for Domestic Battery Group

Emergency Systems:

Automatically activated Emergency lighting and navigational systems for
navigational electronics and lighting
Emergency Navigation Systems Supply 400 Ah
1 x 24/40 Ah Emergency Battery Charger
1x12V 90Ah Communication battery
1x12V 30A charger

Control Interface

Heavy Duty Breaker Panels for AC & DC Heavy Loads AC Distribution
Panel
DC Distribution Panel
AC & DC Appliance's management Dashboard Monitoring System
Panels

Monitoring and Control System

Siemens 10.4 inc touch panel
monitoring and control system for
Levels
Electrical Capacities
Pumps
Hydraulic Systems
Alarms

Navigational Electronics

Plotters

Simrad NSS12 Multifunction Display-TouchScreen
Simrad NSS8 Multifunction Display-TouchScreen

Radar

Simrad BR24 BroadBand Radar for Simrad NSE and NSO series

Sounder

Simrad Broadband Sounder Module (BSM-1)

VHF

Simrad RS25 VHF system (with alpha fist mic). EU,APAC
Simrad AHK05E Wireless handset. EU,APAC

Entertainment System

Seatel ST24-European Quad Auto Pol (Linear) SAT TV (60cm dia)

In saloon there will be 42 inches Samsung Led tv and Samsung home theater system.

In Master cabins there will be 22 inches Samsung Lcd tv and dvd player system.

In other guest cabins and galley 19 inches Samsung Lcd tv.

At flybridge there will be waterproof sound system.

Safety equipment

Ship and personal safety systems according to Solas and Collreg

Electrical and engine driven salt water fire protection system

Fire extinguishers according to fire protection plan approved by Solas

Fire and smoke alarm with central monitoring system

Miscellaneous Equipments

Icemaker (u-line brand)

Washing machine (Siemens WM 10 Q 310 TR)

Dryer machine (Siemens WT 44E 101TR)

Joker Boat 4.80 m +4 stroke yamaha 100 hp

2 units projector light

Navigation lights

Electrical horn

Wiper

Fenders

Mooring ropes

Stainless Steel:

Stainless steel handrail will be mounted with 25 cm height of stanchions on bulwarks.

Flybridge bulwarks and stair handrails will be stainless steel.

There will be 2 bollards at aft and 2 bollards at bow with dimension 300mmx650 mm.

Borders of portlights will be stainless steel.

Superstructure side portlights' borders will be stainless steel.(not including saloon Windows)

boarding/swimming ladders will be fitted each side.(total 2 units)

Passeralla(gangway) will be 4 meters.(manuel)

2 pcs. Davit (with electrical motors) will be fitted on aft deck.

4 pcs flush hatches (with glass cover) will be fitted.

Fire extinction:

2x45kg carbondioxyde tube cylinder

1x90kg carbondioxyde fire extinction gas

1x Fire alarm central 16 zoon (max logic mavi guard)

20x Optic smoke detector

2x Ionized smoke detector

2x Heat control detector

8x2kg ABC dry chemical powder YSC

3x6kg ABC dry chemical powder YSC

5x12 kg Foam YSC

3x6kg Co2 gas YSC

2x Fire blanket

1set gas-mask and filter