

BEOLINE GROUP



FPCC



FPCC is line of fast aluminum work boats designed to meet all the needs of the special services.

In order to satisfy all demands working in heavy environment, it is produced in three different dimensions:

- **FPCC 25** (length 7,86m),
- **FPCC 27** (length 8,30m)
- **FPCC 30** (length 9,20m)

Made for different purpose, with the right choice of engine and other marine equipment this is the line of boats that meets even highest world standards in shipbuilding.

BASIC CHARACTERISTICS

MODEL		FPCC 25	FPCC 27	FPCC 30
LENGTH LPP	[m]	7,86	8,30	9,20
BREATH BOA	[m]	2,68	2,68	3,05
HEIGHT	[m]	1,34	1,44	1,54
DRAUGHT	[m]	0,40	0,45	0,50
FUEL OIL TANKS	[l]	300	400	500
DISPLACEMENT	[kg]	1500	1800	2000
CREW MEMBERS		2+4	2+6	2+6
MAXIMUM POWER	[KS]	250	300	400
CABIN SIZE	[mm]	2400 x 2100	2400 x 2100	2500 x 3500
OUTBOARD ENGINE		ONE/TWO	ONE/TWO	ONE/TWO
MAXIMUM SPEED – FULL LOAD	[kn]	40	40	40
SERVICE SPEED – 75% ENGINE LOAD	[kn]	30	30	30

CHARACTERISTICS OF MATERIALS



MODEL	THICKNESS	ALUMINUM
BOTTOM	6 mm	5083
SIDE	5 mm	5083
TRANSOM	6 mm	5083
DECK	5 mm	5083
SUPERSTRUCTURE WALLS	5 mm	5083
SUPERSTRUCTURE DECK	4 mm	5083



STANDARD EQUIPMENT

	Pcs
HULL	
<ul style="list-style-type: none"> ● HIGH-SPEED FORM – DEEP “V” ● FOAM FILLED HULL ● ANTI-SLIP DECK ● DIVING PLATFORM ● DOORS ON CABIN AS ENTRANCE TO THE PLATFORM ● STAINLESS STEEL RAIL FORE ● FORE AND AFT TOWING BITT ● FENDER ● SELF-DRAINING DECKS 	
SUPERSTRUCTURE	
<ul style="list-style-type: none"> ● CLOSED CABIN WITH FIRM ROOF ● NATURAL VENTILATION SYSTEM INSIDE CABIN ● THERMAL AND SOUND ISOLATED ● DOOR ON FORE WALL ● DOOR ON AFT WALL ● SIDE WALL OPENINGS ● WIPERS ON FRONT WALL WINDOWS 	 1 1 2 3
DRIVING SYSTEM	
<ul style="list-style-type: none"> ● OUTBOARD ENGINE, 4 STROKE, DIRECT INJECTION ● ELECTRO-HYDRAULIC TRIM SYSTEM WITH INDICATORS ● REMOTE DOUBLE COMAND ● STAINLESS STEEL ENGINE PROTECTION 	2

STEERING SYSTEM	
<ul style="list-style-type: none"> • HYDRAULIC STEERING SYSTEM 	
ELECTRICAL SYSTEM	
<ul style="list-style-type: none"> • DC 12v – THREE GROUPS OF BATTERY • AC 220/50Hz – 4kW POWER – DYSEL GENERATOR, WATER COOLED, SOUND AND TERMICALY ISOLATED • INVERTER 12V DC / 220V AC – 1kW POWER • BATTERY CHARGER 20A/220V/50Hz • SHIP TO SHORE CONNECTION 220V/50Hz 	
AIR CONDITIONING AND HEATING SYSTEM	
<ul style="list-style-type: none"> • AIR CONDITIONING – MARINE AC DEVICE, WATER COOLED, ROOF MOUNTED 20000BTU • HEATING – SEPERETED, OVER THE MARINE AC SYSTEM 3 kW 	
ELECTRONIC EQUIPMENT	
<ul style="list-style-type: none"> • RADAR, CLOSED ANTENNA 50KM RANGE, WITH PICTURE LAPPING OVER THE GPS MAPS 	1
<ul style="list-style-type: none"> • GPS PLOTTER, 10.4” TFT – LCD MONITOR 	1
<ul style="list-style-type: none"> • ECHO SOUNDER – 50M DEPTH 	1
<ul style="list-style-type: none"> • VVF RADIO STATION, 50KM RANGE 	1
<ul style="list-style-type: none"> • RADIO CD SYSTEM WITH FOUR SPEAKERS 	1
<ul style="list-style-type: none"> • FLIR SYSTEM FOR NIGHT VISION – OPTIONAL 	
NAVIGATIONAL EQUIPMENT	
<ul style="list-style-type: none"> • NAVIGATIONAL LIGHTS – STANDARD SET 	1
<ul style="list-style-type: none"> • FIXED SEARCH LIGHT, ROOF MOUNTED 100w, ELECTRICALY DRIVEN FROM THE CABIN 	1
<ul style="list-style-type: none"> • PORTABLE SEARCH LIGHT 50w 	2
<ul style="list-style-type: none"> • MARINE SIREN, STANDARD 	1
<ul style="list-style-type: none"> • BLUE FLASH LIGHT SVETLO WITH POLICE SIREN 	1
<ul style="list-style-type: none"> • MEGAPHONE WITH TWO OUTBOARD SPEAKERS 100w 	1

INTERIOR EQUIPMENT

- MARINE REFRIGIRATOR 50L WITH COMPRESSOR 12 V DC
- SINK WITH OVERLAPING GAS BURNER AND INTEGRATED TAP
- FRESH WATER SYSTEM 12 V DC
- HELMSMANS CHAIR
- NAVIGATORS CHAIR
- MARINE ELEKTRICAL TOILET
- WASH BASIN WITH TAP
- BENCHES FOR CREW MEMBERS, MADE FROM WATERTIGHT MATERIAL
- OUTSIDE SHOWER ON DIVING PLATFORM

TANKS

- FUEL OIL TANK GORIVA, STRUKTURAL 200L, WITH INDICATORS ON CONTROL PANEL 1
- FRESH WATER TANK, STAINLESS STEEL 100L, WITH INDICATORS ON CONTROL PANEL 1
- FUEL OIL TANK FOR GENERATOR, STAINLESS STEEL 50L, WITH INDICATORS ON CONTROL PANEL 1

ANCHORING, MOORING AND LIFE SAVING EQUIPMENT

- ANCHOR 15 KG WITH CHAIN 1
- AUXILLARY ANCHOR 7 KG WITH ROPE 1
- ELECTRICAL ANCHORING DEVICE 12 V DC 1500w 1
- BOLLARDS 4
- MOORING CHOCKS 4
- ROPES Ø14 MM – 50 M, Ø16 MM – 50M 1
- BOAT HOOK 2
- LIFE SAVING VESTS 6
- LIFE BELTS 2
- FIRST AID KIT 2
- FIRE EXTINGUISHER 3

Company „**BEOLINE GROUP**“ is established in 2005. in Belgrade. Our main activity is designing and manufacturing of ships, boats and yachts and providing consulting as well as all the other shipbuilding services. Designing and manufacturing of ships is done according to rules and regulations of world's greatest classification societies (Lloyd's Register, American Bureau of Shipping, Bureau Veritas, Germanischer Lloyd,...)

Our main activities are:

- manufacturing of special service aluminum crats
- designing and consulting in newbuildings and ship repair
- supervision in manufacturing, repair and reconstruction of ships
- manufacturing and fitting of boats, yachts and other vessels
- installation and fitting of all kinds of ships outboard and inboard engines
- manufacturing and fitting of stainless steel equipment for ships
- designing and manufacturing of all kinds of steel and aluminum constructions
- welding of aluminum and stainless steel alloys (MIG-MAG and TIG)

Large number of projects well done are the best proof that, in the future „BEOLINE GROUP“ will be able to answer the most demanding specific needs of our clients.

Most important projects:

- ***British Marine Fleet Technology Limited (BMT), Vancouver, Canada – following projects:***

- 2010 – Arctic tug „Legacy class ATB tug“ – three vessels: „M/V Legacy“, „M/V Legend“, „M/V Liberty“. We made workshop documentation of all ship's piping systems. Buyer is „Crowley Maritime Corporation“, and ships were built in „Dakota Creek Industries“, Anacortes WA, USA. Under the supervision of ABS and United States Coast Guard (USCG)
- 2009 – Fast fire-fighting ship „Fast fire boat“ – two vessels: „Three Fourty Threee“ and „Fire Fight Two“, world's biggest fire-fighting ships. We made complete workshop documentation, cutting layouts and documentation for all ship's systems. Buyer is „Federal Department of New York City“ and ships were built in „Eastern Shipyards“, Panama City, Florida USA. Under the supervision of ABS and United States Coast Guard (USCG)
- 2008 – Oil platform supplier „Anchor Handling Tug Supplier“. We made complete classification documentation, for the client „Navi form“, Vancouver BC, Canada. Under the supervision of ABS

- ***Yugoimport SDPR, Belgrade, Serbia – following project:***

- 2005 – Aluminum fast patrol boat type „Coral“ – 20 vessels. Scope of works: classification, project, specifications and workshop documentation, building technology, welding plan for whole series. Manufactured and delivered 11 vessels (prototype and 10 objects). Classification documentation under the rules of Lloyds Register of Shipping (LR). Our client and exporter was „Yugoimport SDPR“ for Ministry of Internal Affairs, Nigeria

- ***DAMEN tankers, Novi Sad , Serbia***

- 2007 – Self-propelled river tanker, classification documentation under the rules of Jugoslovenski registar brodova (JR)

- ***Pan Navigator, Zemun, Serbia – following projects:***

- 2009 – Self-propelled river cargo ship „SAGA“. Scope of works: longitudinal strength check, specification of materials as well as specifications and overview of jobs done. Longitudinal strength check was done under the rules of Germanischer Lloyd (GL)
- 2011 - Self-propelled river cargo ship „SAGA“. Scope of works: manufacturing of push bow, manufacturing of additional fuel oil tank (8m³) with pipeline to transfer pump, installation of fuel oil transfer pump, manufacturing and replacement of left rudder shaft bushing, reparation of central

pump for lubrication of propeller shaft and rudder shaft bearings. Under the supervision of „Uprava za utvrđivanje sposobnosti brodova za plovidbu“

- 2012 - Self-propelled river cargo ship „SAGA“. Scope of works: replacement of steel plates on ship's bow – 80m²
- 2012 – Barge NAVIN 24. Scope of works: replacement of steel plates on port side – front due to shipwreck with another ship

- ***Testyla Shipping, Toronto, Canada and Wessels Haren, Germany***

- 2006 – Project and workshop documentation, specifications and manufacturing of aluminum wheelhouse, with all aluminum equipment for transoceanic container ship capacity of 5.000t. Under the rules of Germanischer Lloyd (GL)

- ***Abu Salma Transport Company, Khartoum, Sudan***

- 2006 – Feasibility study for the manufacturing of passenger ship/restaurant with access pontoon and bridges. Scope of works: preliminary design, general arrangement, main cross-section, technical description, specifications of materials and equipment with manufacturers, budget price and exploitation costs. Under the rules of Germanischer Lloyd (GL)

- ***Neodom Shipbuilding, Izola, Slovenia***

- 2008 – Feasibility study for the manufacturing of pusher and barges with the capacity of 500t for White Nile river. Scope of works: preliminary design, general arrangement, main cross-section, technical description, specifications of materials and equipment with manufacturers, budget price and exploitation costs. Under the rules of Germanischer Lloyd (GL)

- ***University of Novi Sad, Faculty of Technical Science, Novi Sad, Serbia***

- 2007 – 2008 – Agreement on business and technical cooperation in the preparation of the detailed design of the pier for docking cruise ships. Scope of works: consulting activities on the development of technical documentation for mooring pontoons for boats, project development of small pontoons for mooring boats and watercraft, technical documentation, which included analysis of the location, the properties of the waters, architectural design and consultation on the harmonization of construction, mechanical and electrical projects with shipbuilding project. Under the rules of Jugoslovenski registar brodova (JR)

- ***Ministry of Defence, Republic of Serbia, Directorate of Defence Technology***

- 2011 – 2012 – BPN 30 „Kozara“. Scope of works: re-motorization. Complete project of re-motorization, disassembly of old main engines, installation of diesel-electro propulsion (under the rules of Uprava za utvrđivanje sposobnosti brodova za plovidbu). Project and manufacturing of the following systems: main engine cooling system, bilge system, wheelhouse, main and auxiliary engines exhaust system, heating system. Project, procurement and manufacturing of bow thruster (90kW), project, mounting and centering of propulsion electric motors (2x250kW), manufacturing, delivery and mounting of electrical cabinets for fire-fighting system, bilge system, boiler room, fuel oil transfer system, engine room ventilation system, hull repair (replacement of steel plates), manufacturing, mounting and assembling of stainless steel fresh water tanks (18m³), mounting of central lubrication system,





manufacturing of new shafts and gear box, mounting and centering of gear box, assembling of frequency converter.

- 2012 – 2013 – BPN 30 „Kozara“. Scope of works: interior design works, fresh water system, sanitary water and drainage system, ship ballast system, instalation of ship’s internal communication system...

- ***Ministry of Defence, Republic of Serbia, Military Technology Institute***

- 2013 – RML 341 and RPČ 214. Scope of works: project, procurement and installation of complete navigational system, including independent power supply, NMEA 2000 network, navigational river radar, AIS transponder, weather station, depth meter, etc. All instruments are connected to the ship’s navigational computer – ECDIS with radar overlay

- ***Center for the Promotion of Science, Republic of Serbia***

- 2012 – Scientific laboratory ship „ARGUS“. Scope of works: detailed ship repair. Under the supervision of JR

- ***Pan Navigator, Zemun, Serbia***

- 2013 – Repair of self-propelled ship „SAGA“. Scope of works: steel plates replacement, manufacturing and mounting of additional fuel oil tanks, fuel oil system, manufacturing and mounting of rudder plate with shaft, repair of damaged part of the barge, manufacturing and mounting of stainless steel fresh water tank. Under the supervision of JR

- ***Geodril, Croatia***

- 2013 – Repair of dredger „PETAR“. Under the supervision of CRS
- 2013 – Repair of pontoon „CP 12“. Under the supervision of CRS

- ***Luste transport, Slovenia***

- 2013 – Repair of barge, replacement of steel plates and repairing of damaged stern part. Under the supervision of HR

- ***DMP TIM, Brčko, BIH***

- 2013 – Repair of self-propelled ship“DIEGO“. Under the supervision of CRS
- 2013 – Repair of barge PZ 14804 – replacement of steel plates. Under the supervision of CRS
- 2013 – Repair of barge PZ 14805 – replacement of steel plates. Under the supervision of CRS

For the purpose of participation in national and international tenders we have been developed following series of ships:

- ***Series of fast aluminum ships for the needs of police and border police:***

- FPPC 25, FPPC 27, FPPC 30, FPB 12-Z, FPB 16. Scope of works: detailed design, technical description, general arrangement, 3D models, prices, plans and building schedule

- ***Series of fast aluminum boats for fast respond in accidental situations (for needs of fire-fighting and rescue services):***

- FRFB 12 with inboard engine and jet propulsion
- FRFB 10 with outboard engine

- ***System for collecting of floating debris from river and lake surfaces, which consists of work boat – collector (trash skimmer) with conveyor system, transport barge with conveyor system and shore elevator***

Company „**BEOLINE GROUP**“ d.o.o. has highly educated professional staff with years of experience in shipbuilding. We are fully equipped with the latest software needed for this kind of work.

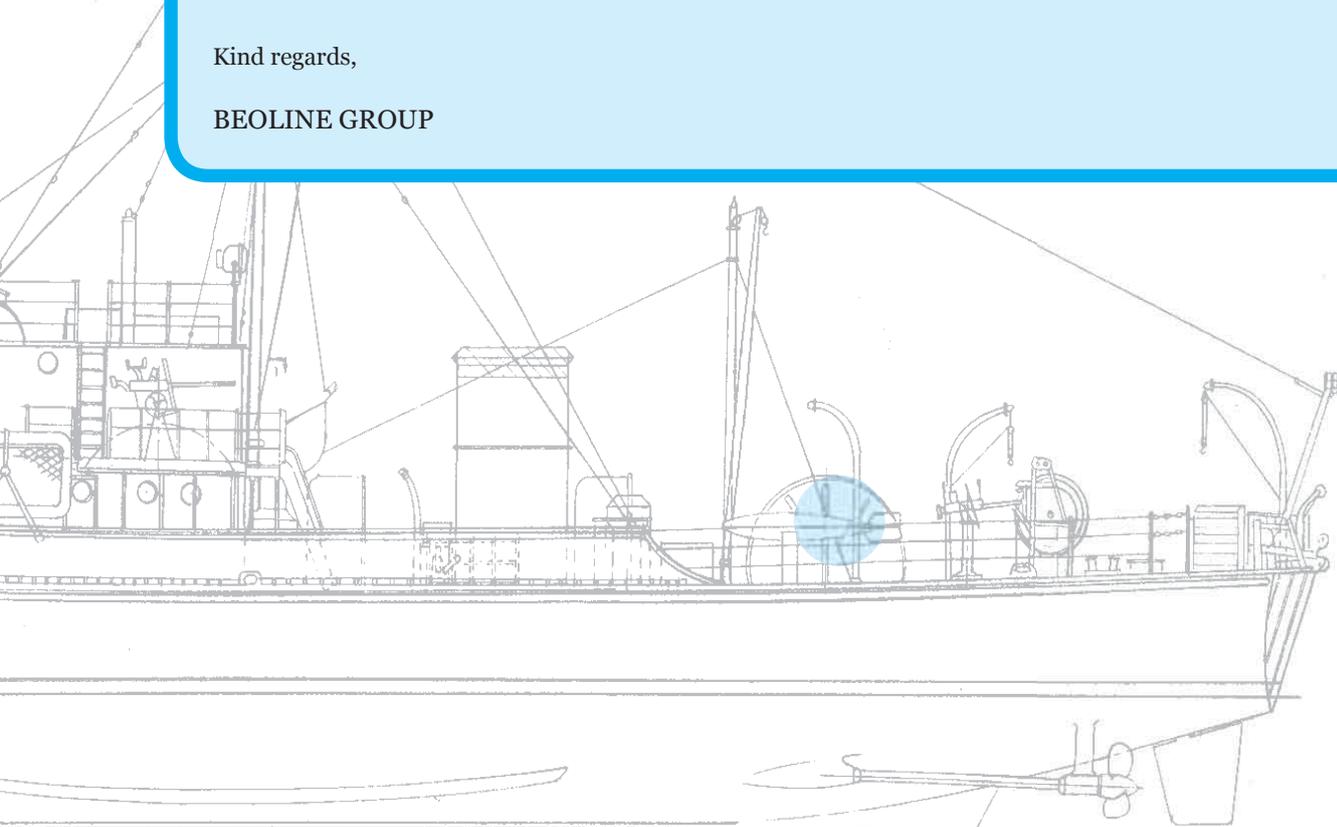
Furthermore, in our production plant we have skilled workers of all profiles in shipbuilding process. Depending on the needs we are able to form a crew of workers for each specific job. As a team we are adequately trained to meet all customers requirements.

We are hoping that our production line and possibilities will meet your demands, and that we will make business cooperation in the near future.

If there is anything else that you need from us in this first step, please let us know.

Kind regards,

BEOLINE GROUP





BEOLINE GROUP d.o.o.

**Head Office:
Gospodara Vučića 235
Belgrade
SERBIA**

**tel: +381 11 241 94 36
fax: +381 11 241 46 23**

**e-mail: office@beolinegroup.com
www.beolinegroup.com**



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