

AluminumNow Ltd.

Commercial, Yacht & Military Construction in Aluminum, Steel or Composite
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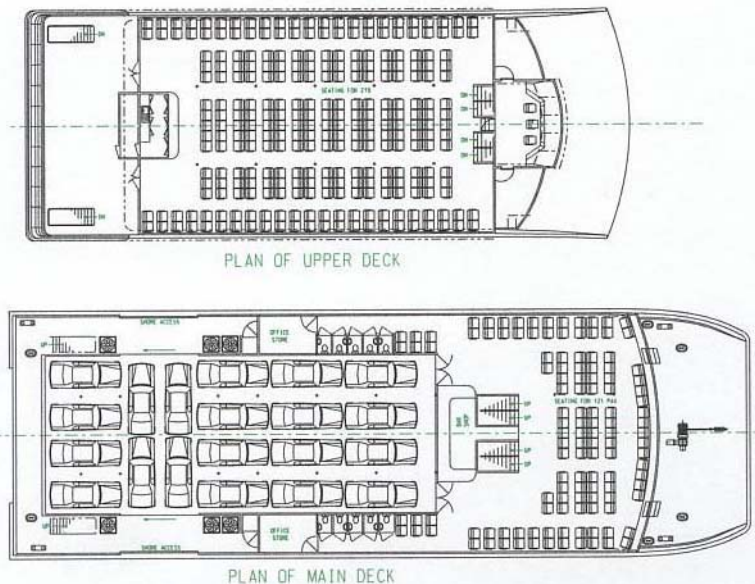
ALUAMD490 – Pax-Vehicle Ferry



Particulars

Length Overall:	45 m	Deadweight (normal):	74.5 tonnes
Beam Overall:	15.2 m	Engine Power:	2 x 2320 kW
Draft (maximum):	2.2 m	Speed (Normal):	29 knots
Passengers:	400	Speed (Maximum):	34 knots
Vehicles:	20		

ALUAMD490 Pax Vehicle Ferry Standard Bow Type



Notes:-

The ALUAMD490:

Aluminium weight is about 90 tonnes.

Engines selected are 2 x MTU16V4000 with MJP750 waterjets,
Gearboxes would be ZF7550 or similar

Deadweight is made up as follows:

Fuel:-	12 t
Water:-	2 t
Crew:-	0.5 t
Passengers and hand luggage:-	34 tonnes(400 x 0.85kg)
Stores	2 t
Cars	<u>24 t</u>
TOTAL	74.5t

Speed should be 29 knots, however strict control of materials and weight is required to meet design speed.

As you can see from the GA, 20 cars is a tight squeeze, and also the passengers are stacked in quite tight.

This proposal was put together for a client who was looking at a relatively short commuter run in China.

For longer routes you would wish to reduce numbers and spread the passengers out a bit more.

Passenger access could also be approved by taking out four seats on one side and putting in a side access door.

Build Cost Indication subject to design plans and client requirements

€7,712,084

Delivery at Shipyard

**ALUAMD 490 - 45 m. Catamaran Ferry
Cost Estimation 2009**

	Specification	Quantity/Unit	Total
GENERAL			
Design			506,000 EUR
Class			
Flag			
Shop design			
Insurance			
Logistic & Support			
Delivery and import			
Bank letter			
Launching			
Contract fees			
Ceremonies & Publicity			
HULL			
Steel plate			455,950 EUR
Aluminium plate	AlMg5 plate	80000 Kg.	
Aluminium profile		10000 Kg.	
Steel profile		2000 Kg.	
Stainless steel profile		1000 Kg.	
Tri-clad		50 m.	
Painting (Material only)			
PROPULSION			
Main engines	2X MTU 16V 4000		2,431,100 EUR
Gear boxes	Included		
Water jet system	2 Sets		
Exhaust system			
ELECTRICAL			
Generators	2x100 + 1x 40 Kw		253,000 EUR
Cabling			
Switchboards			
Frequency converters			
Paralleling system			
Shore power system			
Batteries & Battery chargers			
ELECTRONIC			
			330,000 EUR
JOINERY			
Crew accommodations			241,500 EUR
Guest areas			
Technical spaces			
Open areas			
Bridge			
Seats		400 ea.	

OUTFIT			
Bits, chocks, bollards			127,600 EUR
Boarding ladders			
Cranes			
Anchors & Chains			
Capstans			
Windows & Portholes			
Doors, Hatches & Manholes			
Ladders			
Mast			
Galley & Laundry equipment			
Bowthruster			
Transom door	In hull material		
Handrails			
SYSTEMS			
Sea water system	All systems including pumps, separators, pipes, fittings etc		220,000 EUR
Black & Grey water system			
Bilge system			
Fuel oil system			
Lube oil system			
Compressed air system			
Tank sounding system			
Scupper & Drain system			
HVAC System			
Steering system			
Hydraulic system			
Fire system			
Other systems			
Acoustic & Thermal insulation			
SAFETY			
Fire detection & Alarm system			104,500 EUR
CO2 system	For the engine room only		
Portable fire extinguishers			
Fire box and other accessories			
Life rafts			
Life jackets			
Life buoys			
LABOUR			
Hull & Outfitting		90000	1,994,300 EUR
Machinery general			
Electrical			
Insulation			
Joinery			
Blasting & Painting (Commercial)			
Piping			
Project management team			

		Mark Up	BRUT
MATERIAL TOTAL	4,669,650 EUR	10%	5,136,615 EUR
LABOUR TOTAL			1,994,300 EUR
		GRAND TOTAL	7,130,915 EUR
		Inflation rate 3%	213,927 EUR
		TOTAL	7,344,842 EUR
		Margin 5%	367.242 EUR
SALES PRICE			7,712,084 EUR

1. Cost estimations are based mostly on our choice of equipment i.a.w our previous quotations and may vary i.a.w client's specification requirements.
2. Boat Design/Building Plans cost in addition to the above.
3. Prices exclude V.A.T(Ship Built for Export)
4. Construction period is assumed as 12 months following down payment and signing of build contract.
5. Financial matters such as down payment, partial payments, bonds etc. are subject to our standard terms