

ATLANTIC STAR: Ro-ro/Containership

Shipbuilder: Hudong-Zhonghua Shipbuilding (Group) Co. Ltd, China Vessel's name: Atlantic Star Hull number: 1695 Owner: ACL Vessel One H1695A AB Operator: Atlantic Container Line AB
Country: Sweden
Technical Manager: Grimaldi Group S.p.A. Designer: Knud E. Hansen (Based on patent by Mr. Jens M. Nielsen)
Country: Denmark Model test establishment used: Marin (Wageningen)
Flag: Liverpool, UK IMO number: 9670573 Total number of sister ships already completed (excluding ship presented): 0 Total number of sister ships still on order: 4

On 27 October 2015 Hudong-Zhonghua Shipbuilding in China delivered the first of five Con-ro vessels to Atlantic Container Line. This was the culmination of a contract entered into force on 20 July, 2012. The series of five vessels will be operated by Atlantic Container Line AB (ACL).

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The five new vessels will be the world's largest open top ro-ro/containerships at nearly 300m long and 38m wide. These G4 vessels will replace ACL's existing fleet of G3 vessels operating on the company's transatlantic service. Bigger, faster, greener and more efficient than their G3 predecessors, the vessels are specially designed to handle a wide range of cargos efficiently, including containers, rehicles between equipment president and versioned cargo.

vehicles, heavy equipment, project and oversized cargo. This is achieved with the help of a large stern quarter ramp and four hoistable car decks.

Green features include an Alfa Laval single inlet hybrid scrubber to meet requirements regarding exhaust gas emissions and a shaft generator for electrical power derived from the main engine.

The G4 vessels have a container capacity of 3,820TEU plus 28,900m² square metres of ro-ro space, with a car capacity of 1,307 vehicles. Cell guides will continue to be used on deck and open top cargo holds, a feature that will allow ACL to extend its record of never losing a container at sea in over 30 years.

Thanks to the revolutionary new design situating container cargo fore and aft of the accommodation and the ro-ro cargo mainly midship on all decks from the tank top and upwards, good stability is achieved while maintaining maximum loading flexibility between the different types of cargo.

With their superior capacity and flexibility these new vessels are an important and timely innovation for the industry.

TECHNICAL PARTICULARS

Length oa:
Length bp: 287m
Breadth moulded: 37.6m
Depth moulded
To main deck:14m
To upper deck:

To other decks:	2.2m, 8.1m, 29.7m, 35.1m, 40m, 42.4m
Width of double skin Side: Bottom:	0.9m
Draught Scantling: Design:	10.25m
Gross Tonnage: Deadweight Design:	
scantling: Block co-efficient: Speed, service (%MCR	abt. 55.649dwt
Bunkers (m³) Heavy oil: Diesel oil: Daily fuel consumption (to	3450m ³
Main engine only: Auxiliaries: Classification society and	
containe	rshin: ro-ro cargo shin:
GREEN PLUS; ICE CLASS MC	rship; ro-ro cargo ship; navigation; * AUT-UMS; S IC; INWATERSURVEY; N-SHAFT; STAR-HULL
Main engine(s) x 1 Design:	
Designer/Manufacturer Fixed/Controllable pitc Diameter:	::Wärtsilä Propulsion h:Fixed
Main-engine driven altern Make/type:S Output/speed of each	ators x 1 AM Electronics GmbH set:variable 2000kW to 1600kW
Diesel-driven alternators Number: Engine make/type: 8EY	
Type of fuel: Output/speed of each Alternator make/type: Output/speed of each set Exhaust-gas scrubbing e	
Manufacturer:	Alfa Laval Ox Single-inlet, hybrid
Boilers Type:	2,000 kg/hr and 2.500 kg/hr
Other cranes x 1 Make:	Ningbo Kairong Ship Machinery Co.,Ltd
Maaring aguinment	, ,

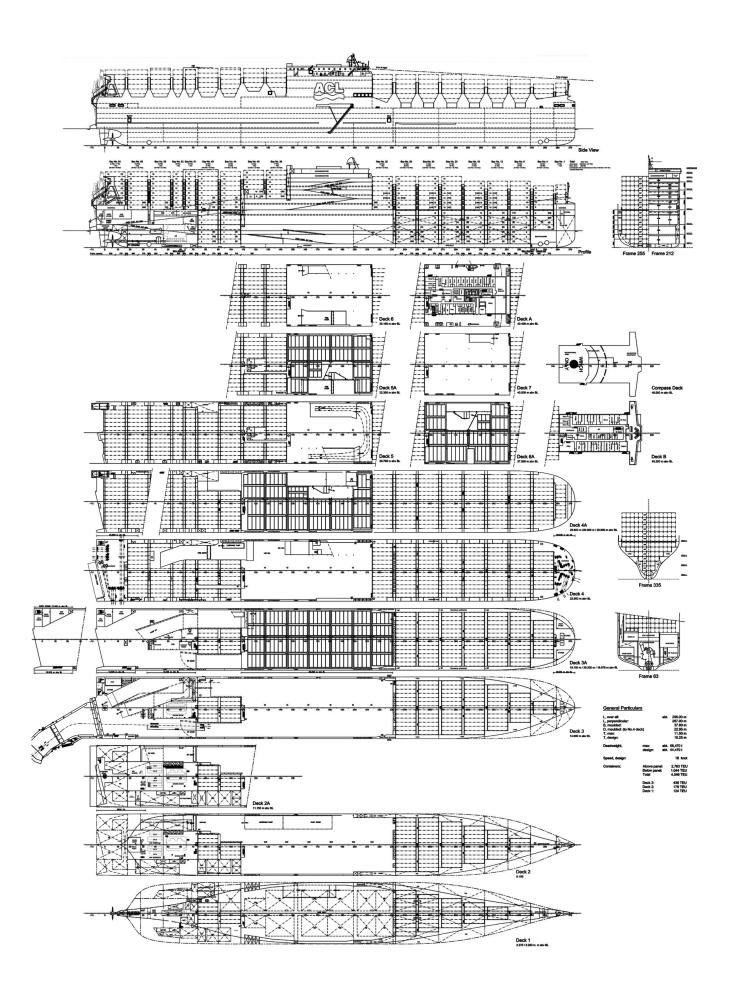
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Make:
free fall boat Make: Jiangsu Jiaoyan Marine Equipment Co. Ltd Type:
Design: None – only container stoppers
Manufacturer:
On deck: 2,776 In holds: 1,044 Homogeneously loaded to 14tonnes:
Reefer plugs:
(fixed/moveable): no lanes - 28,900m² deck area
Doors/ramps/lifts/moveable car decks Number of each: 1 stern quarter ramp, 1 WT stern door, 2 internal WT doors, 2 hinge ramps, 4 hoistable car deck,
2 fire doors (cargo area), Designer:MacGregor Water ballast treatment system
Water ballast treatment system Make:Panasia type GloEn – Patrol 500 Capacity:500m³/h
Complement 12 Officers: 14 Crew: 14 Supernumaries/Spare: 2
Supernumaries/Spare:
Stern appendages/ special rudders:
BOW INFIGURACION Y 2
Make: Wärtsilä Output (each): 1750kW Stern thruster(s) x 1
Output (each): Warrsila 1750kW
Make: Furuno and SAM
Make:Microdata Due Fire extinguishing systems Carron holds: -
Cargo holds: Make/Type:sprinkler (Garbarino pumps) Engine room:
Make/Type: HP CO ₂ Unitor Vehicle spaces: Make/Type:sprinkler (Garbarino pumps)
Radars x 3
Make: Furuno Model(s) Radar S FAR 2837S; Radar X FAR
Sewage plant Make:
Contract date: 20 July 2012 Launch/float-out date: 24 March 2014 Delivery date: 27 October 2015

16 SIGNIFICANT SHIPS OF 2015

Number: 2 mooring stations (4 winch aft, 2 fwd + 2 anchor / mooring)

Mooring equipment

ATLANTIC STAR



18 Significant Ships of 2016