

ECO Valencia and Sisters

General:

The nine vessels will have a length of 238 metres and will be able to transport over 7,800 lane meters of rolling units, equivalent to above 500 trailers.

The design was developed in a fruitful cooperation between the Grimaldi Group, Nanjing Jinling Shipyard and KNUD E. HANSEN.

The vessels will be 'ultra green' with 600m² of solar panels, large-capacity batteries to achieve zero emissions in port and a peak shaving system. Furthermore, an air lubrication system is included so the ship will ride on a carpet of micro bubbles, hereby reducing the frictional resistance between the hull and the water.

Main Particulars:	Length o.a.	238.00 m
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Length p.p.	229.75 m
Breadth moulded	34.00 m
Depth to main deck	9.30 m
Draught to summer load line	7.20 m
Deadweight (design/summer draught)	17,000 t

Capacity: Crew

Passengers 12 pax Lanemetres 7,800 m Trailers above 500 pcs

Speed: Service speed 20.80 kn

Range on HFO Approx. 7,000 nm Range on MGO Approx. 1,000 nm

Machinery and Equipment:

Fuel
Main engines
Installed power
Aux. engines
Propellers

HFO and MGO
Two (2) slow speed 2-stroke Diesel
12,780 kW (MCR) per engine
Three (3) 1,580 kW (MCR) per engine
Two (2) CPP propellers

31 pers





ECO Barcelona and Sisters

Miscellaneous: Classification

Number of vessels

IMO numbers

RINA

9859533, 9859545, 9859557, 9859569,

9859571, 9859583, 9859595, 9859600,

9859612

Scope of Work: From Concept to full Basic Design, including:

General Arrangement and Technical Specification for contract signing

Lines plan, optimization and model test assistance

Intact and damage stability calculations
Noise and vibration prediction calculations

Hull structure design

FEM verification of hull structure, global and local

Deck outfitting

Machinery - Engine Room Design

Machinery - System Design Machinery - Hull Engineering

HVAC

Electric, instrumentation and automation

Statutory- and Class documents

Ref. No.: KEH 18029.01

