




## M/V ELIANA MARINO



### PRINCIPAL DATES & DIMENSIONS

RINA number	94750
IMO number	9226360
International Nominative	IBMD
Registered	Italian Register n.30
Flag	Italy
Service	Ro-Ro Cargo Ship equipped for carriage of containers
Builders	J.J. Sietas - Hamburg (Germany)
Date of Build	01-01-2001
Keel Laying Date	10-02-2000
Yard Number	1145
Owner	MOBY S.p.A.  <a href="http://www.moby.it">www.moby.it</a>

Length over all	174.00	m
Length between perpendiculars	166.74	m
Breadth moulded	25.00	m
Depth	16.80	m
Designed draught, moulded	6.75	m
Lightship	7187.0	t
Deadweight	8800	t
Tonnage	18265	GT
	5479	NT

#### Service Speed:

About 22,5 knots at sea with shaft generator connected based on clean and smooth bottom, even keel, deep and currentless water with a temperature of maximum 28 degree Celsius, wind max. Beaufort 2, calm sea on design draft of 5.70 m.

## CLASSIFICATION

RINA C "MALTA CROSS UNDERLINED" ro-ro Cargo ship - equipped for carriage of containers ; unrestricted navigation  
Additional notation: AUT-UMS; DMS; ICE CLASS IA

Navigation	Unrestricted Navigation
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## PLANTS

### Main Engine

Type	MaK 9M43
Builder	MaK GMBH
Number of unit	2
Maximum continuous rating	8400 kW
Number of Cylinders	9
Engine speed	500 rpm
Normal continuous rating ( 85 % MCR)	7140 kW
Stroke	610 mm
Turbo blowers	1
Fuel Type	IFO 380

### Diesel Generating

Auxiliary Diesel type	3508B Di-TA
Number of unit	2
Builder	Zeppelin Caterpillar
Rpm	1500 rpm
Power	673 kW

### Emergency Generating

Diesel type	1 CAT x 534 kW at 1500 rpm
Number of unit	1

### Reduction Gears

Number and type	1 set w/thrust bearing & couplings
Reduction Ratio $i = 3.3$	

### Fin Stabilizers

One pair

**Shaft Generators**  
N.2 x 2750 kVA

**Propellers**  
n.1 Variable pitch propeller 4 blades

**Thruster**  
Bow thruster 1,200 KW  
Stern thruster 720 KW

**Rudders**  
n.1 rudder fitted

**MAXIMUM TANK CAPACITIES**

Tank capacities / constants:

Fuel Oil: about 1,000.00 t basis 90pct  
Gas Oil: about 75.00 t basis 90pct  
Fresh water: about 105.69 t basis 100 percent  
Ballast water: about 6,562.06 t basis density 1.025 and 100 percent  
Sludge tank: about 51.84 t  
Constants: about 150 t  
Fresh water evaporator about 15 tons per 24 hours at sea

Max number of person on board	35
Passenger	12
Crew	23

**GARAGE CAPACITIES & RAMPS**

One stern ramp 14.00 m x 20.00 m to Ro/Ro-Deck and to weather deck  
One fixed ramp from Ro/Ro deck to lower holds, width 4.00 m  
One fixed ramp from Ro/Ro deck to weather deck, width 4.00 m

Lanemeters  
Lower hold: about 479 m  
Ro/Ro-deck: about 970 m  
Weather deck: about 1,051 m  
TOT: about 2,500 m  
(Width of lane in general 2.90 m)

Stowage heights  
Lower hold: about 479 m about 4.80 m  
Ro/Ro-deck: about 970 m about 7.20 m  
Weather deck: about 1,051 m free except about 4.80m below deckhouse and ramp to weather deck about 5.00 m

- All above details are about and believed correct but are not guaranteed.-

Deck area:

Lower hold: about 1,389 square meters

Trailer deck: about 2,813 square meters

Weather deck: about 3,047 square meters

Deck strengths:

Lower hold: 8.00 mtons per square meter

Ro/Ro-deck: 5.00 mtons per square meter

Weather deck: 2.50 mtons per square meter

Permissible weights in Ro/Ro-Deck:

Road trailer axle load 15 tons max 40 tons

Mafi trailer 40' axle load 32 tons max 86 tons

Mafi trailer 20' axle load 18 tons max 35.65 tons

Stern ramp:

Stern ramp to Ro/Ro deck/Weather deck

Ramp length without flaps: about 14.00 m

Length of flaps: about 2.00 m

Width of ramp: about 20.00 m

Clear Width to Ro/Ro deck about 15.48 m

Clear Width to Weather deck about 4.00 m

Total load for the main stern ramp about 200 mt when ramp is resting on the quay. Maximum slope: about + 7,0° /- 8.2° degr.

Two Fixed Ramps

1. Fixed ramp to Weather deck, portside (outside)

clear width: 4.00m

clear height: 5.00m

inclination: +/- 7°

2. Fixed ramp to Lower hold, starboard side (inside)

clear width: 4.00m

clear height: 4.80m

inclination: +/- 8°

Container Capacity on Weather deck: (pallet-wide = 2.50m)

	<u>20'</u>	<u>40'</u>	<u>+ 20'</u>	<u>45'</u>	<u>+ 20'</u>	<u>30'</u>	<u>+ 20'</u>
1st tier about:	142	66	+ 10	66	+ 10	27	+ 106
2nd tier about:	142	66	+ 10	66	+ 10	27	+ 106
3rd tier about:	142	66	+ 10	66	+ 10	27	+ 106
	426	198	+ 30	198	+ 30	81	+ 318

Container intakes always subject to vessel's stability / trim and permissible weights and visibility.

Container Stack loads on Weather deck:

Stackload 20': 40 tons

Stackload 30': 40 tons

Stackload 40': 60 tons (partly 70 tons)

Stackload 45': 60 tons

Cargo hold equipment: CO2 fitted

Electrical ventilation, 20 / 10 air changes per hour basis open / closed stern ramp  
84 reefer plugs (42 on weather deck and 42 on Ro/Ro deck)

Dangerous goods:

Weather deck: All classes  
Stowage within 6 meters adjacent to the deckhouse and 3 meters adjacent to the engine casing is not allowed.

Ro/Ro Deck: Class 1.4s, 2, 3, 4, 5.1, 6.1, 8, 9 in packaged form

Lower Hold: Class 1.4s, 2, 3, 6.1, 8 with restrictions