



# M/V Estraden

Finnish flag, Ro-Ro cargo ship, built by Aker Finnyards  
1999, Lloyds Register of Shipping, ISM Certified 2004, ISO  
14001 Certified 2004, Finnish Ice Class 1A, Call sign OJIL,  
Hull no. 423, IMO no. 9181077

## Principal dimensions

Length over all	162.70 m
Breadth moulded	25.70 m
Draught max	6.60 m

## Tonnage

Gross tonnage (GT)	18 205 t
Net tonnage (NT)	5 462 t
Deadweight (DWT)	9 700 t

## Tank capacities

HFO/MGO	960.9 m <sup>3</sup>
MGO	150.7 m <sup>3</sup>
Water ballast	3 410.5 m <sup>3</sup>
Anti-heeling	1 437.4 m <sup>3</sup>

## Ro-Ro capacity

Cargo Hold Capacity	Area	Lane meter
Lower hold (ex. Ramp)	abt 1 050 m <sup>2</sup>	abt 360 m
Main deck	abt 2 900 m <sup>2</sup>	abt 950 m
Weather deck	abt 2 650 m <sup>2</sup>	abt 960 m
Hoistable car deck under accommodation area	abt 490 m <sup>2</sup>	
<b>Total</b>	<b>abt 7 090 m<sup>2</sup></b>	<b>abt 2 270 m</b>

## Free deck height

Lower hold	4.70 m
Main deck (except under upper ramp)	7.20 m
Weather deck (under superstructure)	4.60 m

## Cargo hold volumes

Lower hold	4 950 cbm
Main deck	20 800 cbm
<b>Total</b>	<b>25 750 cbm</b>

## Uniform load

Tank top	5.0 t/m <sup>2</sup>
Main deck	5.0 t/m <sup>2</sup>
Upper deck	2.0 t/m <sup>2</sup>

**Container capacity** on weather deck 363 TEU

## Ramps

Stern ramp by MacGregor:	14.5 x 20,0 (LxB) max load 120 t
Main deck to lower hold:	fixed ramp
Main deck to weather deck:	hoistable ramp 62.2 x 4.50 (LxB)
max load:	140 t

## Cargo hold ventilation

In port:	30 changes/h
At sea:	10 changes/h

## Accommodation for drivers

Accommodation for 12 drivers in 6 cabins

## Machinery

Main engine 2 x Wärtsilä Vasa 8L46A, 14 480 kW (19 693 hp)  
Auxiliary engines 2 x Caterpillar 3508B, 1 712 kW  
Bow thruster 1 x Kamewa, 1 100 kW  
Shaft generator, 1 200 kW

## Speed and consumption per day

Service speed abt 19.0 kts on abt 55 mt IF-380  
trailer draught 5.3 m  
Harbour consumption about 2 mt MGO/24h

## Equipped with 2 Rotor Sails

Height	18 m from foundation
Air draft of vessel	43.5 m above keel (aft mast highest point)

