

MV LONGSTONE

VESSEL PARTICULARS

IMO NO. 9848479

TYPE: RORO



GENERAL INFORMATION

CLASS	1A1 - BIS. EO. DG-P. NAUT-AW, TMON
FLAG	Malta
BUILT	Flensburger Schiffbau-Gesellschaft (FSG), hull 776
GMDSS	A3
DRIVER CAPACITY	12 (6 x 2)

DIMENSIONS

LENGTH (OA)	209.79m
LENGTH (BP)	197.74m
BEAM	26.0m
DRAFT (DESIGN MOULDED)	6.45m
SUMMER LOAD DRAFT	6.8m
DEADWEIGHT	abt 10444 T
GROSS TONNAGE	abt 32887 T
NET TONNAGE	abt 9867 T

SPECIFICATIONS

MAIN ENGINE	2 x MAN Diesel & Turbo SE 8L4860CR 2 MCR 9600kW at 500 rpm each
AUXILIARIES	Two auxiliary diesel alternator sets 2 x HYUNDAI 6L21/31 1320kW ea
THRUSTER AND PROPULSION	1 x Emergency Gen set Volvo Penta D16C-A MG 432kW 2 x Brunvol tunnel thruster – 1500kW each

TANK CAPACITIES

BALLAST CAPACITY	4330
BUNKER CAPACITY FUEL OIL	935
BUNKER CAPACITY DIESEL OIL	230
FRESH WATER CAPACITY	250

LANE METRES AND LANE WIDTHS

Deck	No. of lanes	Lane metres	Lane width
Tank top	6	573m	2.90m
Main deck	7	1060m	2.97m
Upper deck	8	1186m	3.00m
Top deck	8	1257m	3.00m
Total		4076m	

CONTAINER & REEFER PLUG CAPACITY

Deck	TEU	Reefer Plug No
Tank Top	78	-
Main Deck	285 (two tiers high)	40
Upper Deck	168	40
Top Deck	-	-
Total	531	80

TRAILER CAPACITIES AND FREE HEIGHTS

Deck	Nominal capacity	Convenient loading	Maximum height
Tank top**	86	87	5.00m
Main deck	84	79	7.10m
Upper deck	73	69	4.70m
Top deck	40	38	4.70m
Total	283	273	

* Basis on "Exemplary Payload for convenient loading condition", which does not necessary represent maximum LC's ** Two trailer positions adjacent to the ramp will have a reduced lane width of about 2.50m. Four trailer slots on the upper deck (two slots frame 9 – 48 starboard side and one slot frame 216-231 on both the port and starboard sides may not be used due to mooring requirements for Panama Canal Transit

EQUIPMENT

Deck	Average uniform deck load (t/m ²)	Road trailer maximum total mass (t)	Road trailer maximum axle load (Minimum axle distance 1300mm) (t)	Mafi maximum total weight/total payload (t)	Mafi maximum axle load (Minimum axle distance 1000mm) (t)	Fork lift maximum axle load (t)	Tug master maximum axle load (t)
Tank top	3	50	20	75.0 / 60.0	25	30	25
Main deck	2	50	20	75.0 / 60.0	25	30	25
Upper deck	1.25	50	20	45.0 / 30.0	14	30	25
Top deck	0.65	30	15				18
Maximum ground pressure		0.7 MPa			1.5 MPa	0.7 MPa	0.9 MPa

STERN RAMP

Parameter	Specification
Ramp length	15.00 m
Flap length	3.00 m
Total length	18.00 m
Free width	17.00 m

DESIGN LOADS

Load Type	Specification
Sea loading	According to class rules
Roll trailer payload	60 tonnes (40-foot trailer)
Axle load	25 tonnes
Harbor traffic condition	Multi-way
Maximum load (mafi-trucks)	120 tonnes payload

Maximum inclination is +5 degrees up and -10 degrees down from the horizontal plane. The working range under normal conditions will be +3/-8 degrees.

INTERNAL RAMPS

Ramp Location	Access Direction	Clear Width	Ramp Angle	Clear Height
Main deck → Tank top	Starboard side	3.50 m	7°	—
Main deck → Upper deck	Port side	7.75 m	7°	5.00 m
Upper deck → Top deck	Port side	4.00 m	~6.8°	5.00 m