

	INITIAL SURVEY	FINAL SURVEY		
MV "Zea"	Inner roads 8.3	Inner roads P.1		
	18.11.2025 - 18:45 h	21.12.2025 - 04:40 h		
	0.20 m. waves	0.10 m. waves		
IMO NO. 9628087 FLAG: Panamanian BUILD: 2013	Wind force 02	Wind force 01		
DRAUGHT SURVEY CERTIFICATE	Ebb tide, , 1 knot	No tide flow		
PGUA/DS/361/25	Weather: Overcast	Weather: Starry		
DRAUGHT	INITIAL	FINAL		
Forward port	5.2700 m	13.1900 m		
Forward starboard	5.1600 m	13.2300 m		
Forward mean	5.2150 m	13.2100 m		
Stem correction	-0.0170 m	-0.0004 m		
Draught forward (corrected to fore perpendicular)	5.1980 m	13.2096 m		
Midship port	6.1600 m	13.2400 m		
Midship starboard	5.9100 m	13.3700 m		
Midship mean	6.0350 m	13.3050 m		
Midship correction	-0.0034 m	-0.0001 m		
Draught midship (corrected to midship perpendicular)	6.0316 m	13.3049 m		
Aft port	7.0100 m	13.2000 m		
Aft starboard	7.0000 m	13.3000 m		
Aft mean	7.0050 m	13.2500 m		
Stern correction	0.0839 m	0.0019 m		
Draught after (corrected to after perpendicular)	7.0889 m	13.2519 m		
Kell correction	0.0000 m	0.0000 m		
Waterplane coefficient correction for hull deflexion	0.0120 m	-0.0111 m		
Means of means corrected for deflexion:	6.0715 m	13.2752 m		
True trim	BY STERN 1.89 m	BY STERN 0.04 m		
Heel (angle & in cm)	P 0.44 ° 25.00 cm	S 0.23 ° 13.00 cm		
Hull deflexion:	HOGGING 11.19 cm	SAGGING 7.41 cm		
DISPLACEMENTS	INITIAL	FINAL		
Displacement in salt water	37,265.7 t	86,049.2 t		
First trim correction	-449.6 t	2.9 t		
Second trim correction	19.8 t	0.0 t		
Displacement corrected for trim	36,835.9 t	86,052.1 t		
Water density	1.02000	1.02050		
Displacement corrected for density	36,656.2 t	85,674.3 t		
Deductibles (fresh water, oils, etc.)	22,671.0 t	1,528.4 t		
Displacement corrected for deductibles	13,985.2 t	84,146.0 t		
Light Ship	13,433.0 t			
Calculated constant	575.0 t			
Anchor + chain	22.8 t	22.8 t		
Total cargo loaded on board as per draught survey		70160.7 t		
Loading terminals: CT, IT, RO, BT, .	TPC	64.5 t/cm	TPC	70.8 t/cm
Cargo: Maize in bulk	MTC +0.5	946.2 t*cm	MTC +0.5	1235.5 t*cm
Paranaguá, Brazil. December 21st, 2025.	MTC -0.5	921.4 t*cm	MTC -0.5	1214.7 t*cm
Total cargo loaded on board as per shore scales				69,809.800 t
Total cargo loaded on board as per draught survey				70,160.744 t
Surplus	350.944 t	0.50 %		

Remarks: 1) Due to huge hull deflexion in hogging on initial draft survey and sagging on final draft survey, it was applied the waterplane area coefficient correction for the deflexion formula as per UN/ECE/Energy/19/1992. 2) According to the Master/Chief Officer usual constant would amount to 600 t.

Standard Brazil Marine Surveys & Services Ltda.

José Antonio Machado Gomes Pereira / Haroldo Fernandes Alves Junior

Licensed Marine Officer / Marine Surveyor / 375460MM

Master/Ch.Off: 70,149.000 t 339.200 t 0.49 %
 Owners P&I: 70,149.700 t 339.900 t 0.49 %