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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. **39921**
(For London Office only).
Appl No - 295.

Ship's Name PARGO	Official Number	Nationality and Port of Registry PORTUGUESE FIGUEIRA DA FOZ	Gross Tonnage	Date of Build 1948	Port of Survey GRONINGEN
Moulded Dimensions: Length 27000 ✓ Breadth 6400 ✓ Depth 3200 ✓					Date of Survey OCTOBER 1948
Moulded displacement at moulded draught = 85 per cent. of moulded depth 266.5 m ³ tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables 68 (567 actual.) ✓					Particulars of Classification ± 100 A 1 MOTOR TRAWLER

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 3200 ✓	(a) Where D is greater than Table depth (D - Table depth) R = $8.33(3248 - 1.800)6.818 = + 82$ <i>inches</i>	Moulded Breadth (B) 6400 ✓
Stringer plate ... 8 ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B}{50} = 128$ <i>inches</i>
Sheathing on exposed deck 2 1/2" O.P. $T \left(\frac{L-S}{L} \right) = 62 \times \frac{27000 - 27000}{27000} = 40$	If restricted by superstructures ✓	Ship's Round of Beam = 125 ✓
Depth for Freeboard (D) = 3248 ✓		Difference 3 ✓
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{3^2}{4} \times 8652 = + 1$ <i>inches</i>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	—	—	—	—	—	Standard Height of Superstructure 1.830 ✓
„ overhang ...	—	—	—	—	—	„ „ R.Q.D. ✓
R.Q.D. enclosed ...	—	—	—	—	—	Deduction for complete superstructure 378 ✓
„ overhang ...	—	—	—	—	—	Percentage covered $\frac{S}{L} = 13.48$ ✓
Bridge enclosed ...	—	—	—	—	—	„ „ $\frac{S_1}{L} = 13.48$ ✓
„ overhang aft ...	—	—	—	—	—	„ „ $\frac{E}{L} = 13.44$ ✓
„ overhang forward ...	—	—	—	—	—	Percentage from Table, Line A. 6.72 ✓
Fore enclosed ...	3640 ✓	3640 ✓	2000/1025	1825/1830 ✓	3630	(corrected for absence of forecastle (if required))
„ overhang ...	—	—	—	—	—	Percentage from Table, Line B. ✓
Trunk aft ...	—	—	—	—	—	(corrected for absence of forecastle (if required))
„ forward ...	—	—	—	—	—	Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ...	—	—	—	—	—	Deduction = 378 × 0.0672 = 25 <i>inches</i> ✓
„ „ forward	—	—	—	—	—	
Total ...	3640 ✓	3640 ✓			3630 ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	479 ✓	1		479	742	742 ✓	1		742	Mean actual sheer aft = <i>Excess.</i> ✓
1/4 L from A.P. ...	213 ✓	4		852	259	259 ✓	4		1036	Mean actual sheer forward = <i>Excess.</i> ✓
3/8 L „ ...	53 ✓	2		106	57	57 ✓	2		114	Length of enclosed superstructure forward of amidships = NIL ✓
Amidships ...	—	4		—	0	—	4		—	„ „ aft of „ = NIL ✓
3/8 L from F.P. ...	106 ✓	2		212	100	100 ✓	2		200	
1/4 L „ ...	426 ✓	4		1704	574	574 ✓	4		2296	
F.P. ...	958 ✓	1		958	1382	1382 ✓	1		1382	
Total ...				4311					5770	
Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{1459(75-0.674)}{18} = -55$ <i>inches</i> ✓										
If limited on account of midship superstructure. YES. NIL. ✓										

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required) 225 ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 2770 ✓	Correction for coefficient NIL.
Depth to Freeboard Deck = 3271 ✓	$\Delta = 268.5$ 296.5 m ³ ✓	Depth Correction ... 82 ✓
Summer freeboard = 306 ✓	Tons per inch immersion at summer load water line 1.39 ✓	Deduction for superstructures ... 25 ✓
Moulded draught (d) = 2965 ✓	$T = 1.39 \times 1.44 = 1.44$ ✓	Sheer correction ... 1 ✓
Deduction for Tropical freeboard and addition for Winter freeboard = 0.062 ✓	Deduction = $\frac{\Delta}{40T}$ inches = 0.051 <i>metres</i> ✓	Round of Beam correction ... 23 ✓
Addition for Winter North Atlantic Freeboard (if required) = 0.062 + 0.051 = 0.113 <i>metres</i> ✓		Correction for Thickness of Deck amidships ... 106 ✓
		Other corrections, scantlings, etc. ... 25 ✓
		Summer Freeboard = 306 ✓

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc	0.113 <i>metres</i> ✓	Tropical Fresh Water Freeboard ...	0.193 ✓
Fresh Water Line „ „	0.051 ✓	Fresh Water „ „	0.255 ✓
Tropical Line „ „	0.062 ✓	Tropical „ „	0.244 ✓
Winter Line below „ „	0.062 ✓	Winter „ „	0.368 ✓
Winter North Atlantic Line „ „	0.113 ✓	Winter North Atlantic „ „	0.419 ✓

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship TRAWLER

Names of sister ships GORAL

Builder's name and yard number SHIPYARD „FOXHOL“ V/A GEBR. MULLER. FOXHOL YARD N^o 84

Owners ARRASTO

Fee 100,-
Paid 22/4/49.



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