

Present (ex "James M. Goodhue") 38927

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 39153
(For London Office only).

JUL 1947

Ship's Name "CAPTAIN FARMAKIDES" (ex "James M. Goodhue")	Official Number	Nationality and Port of Registry Greek Syra	Gross Tonnage 7176	Date of Build 1943	Port of Survey Baltimore, Maryland
Moulded Dimensions: Length 417.73 Breadth 56.90 Depth 37.33					Date of Survey 13th April, 1947, and subsequently
Moulded displacement at moulded draught = 85 per cent. of moulded depth T/1 at 26' = 48.1, at 27' = 48.85, at 28' = 48.8					Surveyor's Signature <i>J. Buchanan</i>
Coefficient of fineness for use with Tables .768					Particulars of Classification 100 A1 contemplated

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37.33	(a) Where D is greater than Table depth (D - Table depth) R = <i>(37.39 - 27.85) 3.00 = +28.62"</i>		Moulded Breadth (B)	56.90
Stringer plate	.06	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	13.65
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$				Ship's Round of Beam	14.05
Depth for Freeboard (D) =	37.39	If restricted by superstructures		Difference	.40
				Restricted to	
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$= \frac{.40}{4} = .10"$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poop enclosed					" " R.Q.D.
" overhang					Deduction for complete superstructure
R.Q.D. enclosed					Percentage covered $\frac{S}{L} =$
" overhang					" " $\frac{S_1}{L} =$
Bridge enclosed					" " $\frac{E}{L} =$
" overhang aft					Percentage from Table, Line A.
" overhang forward					(corrected for absence of forecastle (if required))
Deck enclosed					Percentage from Table, Line B.
" overhang					(corrected for absence of forecastle (if required))
Trunk aft					Interpolation for bridge less than 2L (if required)
" forward					Deduction = <i>Nil</i>
Tonnage opening aft					
" forward					
Total					

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual shear aft = <i>Excess</i>
A.P.	51.77	1		51.77	54.12	54.12	1		54.12	Mean actual shear forward = <i>Excess</i>
$\frac{1}{2}L$ from A.P.	23.04	4		92.16	24.00	24.00	4		96.00	Length of enclosed superstructure forward of amidships = <i>Flush Deck</i>
$\frac{3}{8}L$ "	5.69	2		11.38	5.00	5.00	2		10.00	" " aft of " = <i>Deck</i>
Amidships	-	4		-	-	-	4		-	
$\frac{5}{8}L$ from F.P.	11.39	2		22.78	11.75	11.75	2		23.50	
$\frac{3}{4}L$ "	46.08	4		184.32	47.75	47.75	4		191.00	
F.P.	103.55	1		103.55	105.37	105.37	1		105.37	
Total				465.96	105.37	105.37			479.99	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{14.03}{18} \times .75 = -.58"$
If limited on account of midship superstructure.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	83.34
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	88.75
Depth to Freeboard Deck = 37.39	$\Delta =$	Depth Correction	28.62
Summer freeboard = 9.73	Tons per inch immersion at summer load water line	Deduction for superstructures	-
Moulded draught (d) = 27.66	T =	Sheer correction	.58
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.92 = 7"	Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4"	Round of Beam correction	.10
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		Summer Freeboard =	116.69

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

Tropical Fresh Water Line above Centre of Disc	1' 2 1/4" = 362 mils	Tropical Fresh Water Freeboard	9' 8 3/4" = 2965 mils
Fresh Water Line	7 1/4" = 184 mils	Fresh Water	8' 6 1/2" = 2603 mils
Tropical Line	7" = 178 mils	Tropical	9' 1 1/2" = 2781 mils
Winter Line below	7" = 178 mils	Winter	10' 3 3/4" = 3143 mils
Winter North Atlantic Line		Winter North Atlantic	

as previously assigned by the American Bureau 8.7.1947

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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.

Don't copy this side

Trade of ship General Freighter

Names of sister ships Liberty Ships

Builder's name and yard number California Shipbuilding Company, Los Angeles - Yard No. 152

Owner Messrs. Rethymnis and Kulukundis

Fee \$100



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