

AMENDED

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name HOMELAND	Official Number	Nationality and Port of Registry PANAMANIAN PANAMA	Gross Tonnage 10043	Date of Build 1905	Port of Survey
Moulded Dimensions: Length 520'-0" Breadth 60'-0" Depth 41'-2"					Date 9/2/54
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 20,990 tons					Particulars of Classification B5*
Coefficient of fineness for use with Tables .673 (Use .68)					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 41.17	(a) Where D is greater than Table depth (D-Table depth) R = (41.30-34.67) 3 = +19.89"	Moulded Breadth (B) = 60.00
Stringer plate 1.08"09	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{60 \times 12}{50} = \mathbf{14.40}$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \frac{3}{12} \left(\frac{1-.8268}{.1732} \right) = \mathbf{.04}$	If restricted by superstructures	Ship's Round of Beam = 15.00
Depth for Freeboard (D) = 41.30		Difference = .60
		Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.60}{4} \times .3085 = \mathbf{.045}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed OPEN ...	55.00	27.50	8'-0"		27.50	Standard Height of Superstructure 7'-6"
" overhang ...						" " R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 42.00
" overhang ...						Percentage covered $\frac{S}{L} = \frac{82.68}{100} = \mathbf{82.68\%}$
Bridge enclosed ...	211.50	211.50	8'-6"		211.50	" " $\frac{S_1}{L} = \frac{69.15}{100} = \mathbf{69.15\%}$
" overhang aft ...	51.50	38.62			38.62	" " $\frac{E}{L} = \mathbf{61.55\%}$
" overhang forward ...						Percentage from Table, Line A. + B 61.55
Fore enclosed L/HO ...	52.00	52.00	8'-0"		52.00	(corrected for absence of forecastle (if required))
" overhang ...	60.00	30.00			30.00	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 = 42.00 × .6155 = -25.85"
" " forward ...						
Total ...	430.00	359.62			359.62	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	62.00	1		62.00	40.00	40.00	1		40.00	Mean actual sheer aft
$\frac{1}{8}$ L from A.P. ...	27.59	4		110.36	10.00	10.00	4		40.00	Mean standard sheer aft = Deficient .351
$\frac{3}{8}$ L " ...	6.82	2		13.64	-4.00	-4.00	2		-8.00	Mean actual sheer forward
Amidships ...	0	4		0	0	0	4		0	Mean standard sheer forward = Excess
$\frac{5}{8}$ L from F.P. ...	13.64	2		27.28	23.00	13.64	2		27.28	Length of enclosed superstructure forward of amidships = >.1L
$\frac{7}{8}$ L " ...	55.18	4		220.72	69.00	55.18	4		220.72	" " aft of " = >.1L
F.P. ...	124.00	1		124.00	124.00	124.00	1		124.00	Sheer off. Standard Actual
Total ...				558.00					444.00	$\frac{62.00}{3444} \times \frac{16523}{16523} = \mathbf{.351}$

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75-S}{.2L} \right) = \frac{114}{18} \left(\frac{.75-.4134}{.2} \right) = \mathbf{+2.13"$

If limited on account of midship superstructure. **✓**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

$T =$

Deduction = $\frac{\Delta}{40 T}$ inchesWinter freeboard = $\frac{d}{4}$ inches = **6.99 = 178%**

Addition for Winter North Atlantic Freeboard (if required) =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

NIL

Depth Correction ... **19.89**

Deduction for superstructures ... **-25.85**

Sheer correction ... **2.13**

Round of Beam correction ... **.05**

Correction for Thickness of Deck amidships ... **2.52**

Other corrections, ~~amidships~~, etc. corresponding to a subdivision mould draught of **27.97**

Summer Freeboard = **162.50**

All-season SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, ~~Summer~~, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	178%	Tropical Fresh Water Freeboard	394.8"
Fresh Water Line " " ...	178%	Fresh Water " " ...	394.8"
Tropical Line " "0	Tropical " " ...	412.6"
Winter Line below " "0	Winter " " ...	412.6"
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	✓