

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No.
(For London Office only).

Ship's Name "PELOPS"	Official Number	Nationality and Port of Registry liberian monrovia.	Gross Tonnage 7054	Date of Build 1945	Port of Survey New York
Moulded Dimensions: Length 417.35' Breadth 56.90' Depth 37.33' <i>to centre of rudder stock.</i>					Date of Survey 6th Aug. 1951 <i>Revised computation for increased draught</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth: 16,600 tons					Surveyor's Signature
Coefficient of fineness for use with Tables 771 ✓					Particulars of Classification + 100 A1

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=	Moulded Breadth (B) 56.90
Stringer plate 06	(37.39 - 27.82) 3.00 + 28.71 ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.66
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth—D) R=	Ship's Round of Beam = 14.00
Depth for Freeboard (D) = ✓ 37.39	If restricted by superstructures	Difference .34
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} = .09$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure	
" " R.Q.D.	
Deduction for complete superstructure	
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	nil.
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	nil.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	51.73	1		51.73	55.00	55.00	1		55.00
1/2L from A.P.	23.02	4		92.08	23.25	23.25	4		93.00
1/2L "	5.69	2		11.38	6.50	6.50	2		13.00
Amidships	—	4		—	—	—	4		—
1/2L from F.P.	11.38	2		22.76	11.63	11.63	2		23.26
1/2L "	46.04	4		184.16	46.75	46.75	4		187.00
F.P.	103.47	1		103.47	105.00	105.00	1		105.00
Total				465.58					476.26

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45$ "

If limited on account of midship superstructure. **No. Flush deck.**

Mean actual sheer aft =
Mean standard sheer aft = } **excess**

Mean actual sheer forward =
Mean standard sheer forward = } **excess**

Length of enclosed superstructure forward of amidships =
L

" " aft of " = } **nil.**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD	76.95 + 6.26	83.21
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient.	$\frac{771+68}{1.36} = \frac{1.451}{1.36}$	88.78
Depth to Freeboard Deck = 37.39	Δ =	Depth Correction	28.71	
Summer freeboard = 9.79	Tons per inch immersion at summer load water line	Deduction for superstructures	—	
Moulded draught (d) = 27.60	T =	Sheer correction	—	.45
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction	—	.09
Winter freeboard = $\frac{d}{4}$ inches = 6.9 = 7"	= 7 1/4" as previously assigned.	Correction for Thickness of Deck amidships	—	
Addition for Winter North Atlantic Freeboard (if required) = not assigned.		Other corrections, scantlings, etc. to correspond with a mld. draught of 27.6'	.55	
			29.26	.54
				+ 28.72
				Summer Freeboard = 117.50

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—	9' 9 1/2"	2984 m/m
Tropical Fresh Water Line above Centre of Disc	2 1/4"	362 m/m
Fresh Water Line	7 1/4"	184 m/m
Tropical Line	7"	178 m/m
Winter Line below	7"	178 m/m
Winter North Atlantic Line		
Tropical Fresh Water Freeboard	8' 7 1/4"	2622 m/m
Fresh Water	9' 2 1/4"	2800 m/m
Tropical	9' 2 1/2"	2806 m/m
Winter	10' 4 1/2"	3162 m/m
Winter North Atlantic		