

AMENDEDIndex No. _____
(For London Office only.)

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ~~STEAMER, SAILING SHIP,~~ TANKER.)

Ship's Name STANVAC VISAYAS II	Official Number .	Nationality and Port of Registry PHILIPPINE MANILA	Gross Tonnage 1	Date of Build 1945	Port of Survey _____
Moulded Dimensions: Length 213.50' Breadth 37.00' Depth 14.50'					Date of Survey 19/11/54
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 2105 tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .757					Particulars of Classification B.S. (Tanker)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 14.50	(a) Where D is greater than Table depth (D-Table depth) R = (14.53-14.23) 1.642 = +.49"	Moulded Breadth (B) = 37.00
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 30	Standard Round of Beam = $\frac{B \times 12}{50} = \mathbf{8.88}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = 4.80
Depth for Freeboard (D) = 14.53		Difference = 4.08
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4.08}{4} \times \frac{43.04}{4} = \mathbf{+1.44"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed EQUIV ...	47.44	47.44	7.5'		47.44	Standard Height of Superstructure 6.00'
" overhang						R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure 27.35"
" overhang						Percentage covered $\frac{S}{L} = \mathbf{35.69}$
Bridge enclosed						" $\frac{S_1}{L} = \mathbf{56.96}$
" overhang aft						" $\frac{E}{L} = \mathbf{45.01}$
" overhang forward ...						Percentage from Table, Line A. TANKER 36.01
Fore enclosed	28.75	28.75			28.75	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft		45.41	2.63		19.90	(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction = 27.35 x .3601 = -9.85"
" " forward ...						
Total	76.19	121.60			96.09	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	31.35	1		31.35	26.50	26.50	1		26.50	Mean actual sheer aft =
$\frac{1}{8}L$ from A.P. ...	13.95	4		55.80	10.88	10.88	4		43.52	Mean standard sheer aft =
$\frac{3}{8}L$ " ...	3.45	2		6.90	1.88	1.88	2		3.76	Mean actual sheer forward =
Amidships	-	4		-			4			Mean standard sheer forward =
$\frac{5}{8}L$ from F.P. ...	6.90	2		13.80	5.38	5.38	2		10.76	Length of enclosed superstructure forward of amidships =
$\frac{7}{8}L$ " ...	27.90	4		111.60	19.38	19.38	4		77.52	" " aft of " =
F.P.	62.70	1		62.70	41.00	41.00	1		41.00	
Total				282.15					203.06	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{79.09}{18} (.75 - .1784) = \mathbf{+2.51"$

If limited on account of midship superstructure. **5716** If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient $\frac{.757 + .68}{1.36} = \mathbf{1.437}$	25.26
Depth to Freeboard Deck = 14.53	Displacement in salt water at summer load water line		26.69
Summer freeboard = 1.69	$\Delta =$		
Moulded draught (d) = 12.84	Tons per inch immersion at summer load water line		
Keel allowance =	T =		
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches		
Deduction for Tropical freeboard and addition for			
Winter freeboard = $\frac{d}{4}$ inches = 3.21" = 3$\frac{1}{4}"$			
Addition for Winter North Atlantic Freeboard (required) = 3$\frac{1}{4}"$ + 2$\frac{1}{4}"$ = 5$\frac{1}{2}"$			

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Water~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	6$\frac{1}{2}"$	Tropical Fresh Water Freeboard	1' - 8$\frac{1}{4}"$
Fresh Water Line " " ...	3$\frac{1}{4}"$	Fresh Water " "	1' - 1$\frac{3}{4}"$
Tropical Line " " ...	3$\frac{1}{4}"$	Tropical " "	1' - 5"
Winter Line below " " ...	3$\frac{1}{4}"$	Winter " "	1' - 11$\frac{1}{2}"$
Winter North Atlantic Line " " ...	5$\frac{1}{2}"$	Winter North Atlantic " "	2' - 1$\frac{3}{4}"$

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.

$$\begin{aligned} \text{Original length of trunk} &= 129.50' \\ \text{Length now plated over \& open} &= 45.50' \\ \therefore \text{New length of trunk} &= 84.00' \end{aligned}$$

$$\begin{aligned} \therefore S_1 &= 84.00 \times \frac{20.0}{37.0} = 45.41 \\ E &= 45.41 \times \frac{2.63}{6.00} = 19.90 \end{aligned}$$

$$\begin{aligned} \text{Mean Lt. of trunk} &= \frac{3.00 + 2.35}{2} \\ &= \frac{5.35}{2} \\ &= 2.63 \end{aligned}$$

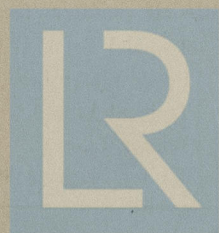
Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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Foundation