

For 2nd plan only.

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Index No. 294  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
					Date of Survey 7.11.47
Moulded Dimensions: Length 315.5 Breadth 46 Depth 17'-6"					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Particulars of Classification On line plates
Coefficient of fineness for use with Tables 77					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 17.5	(a) Where D is greater than Table depth (D-Table depth) R = 17.54	Moulded Breadth (B)
Stringer plate ... 0.04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 21.03-17.54 = 3.49	Standard Round of Beam = $\frac{B \times 12}{50}$
Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam taken = Standard
$T \left( \frac{L-S}{L} \right) =$	$3.49 \times 2.427 = -8.47$	Difference
Depth for Freeboard (D) = 17.54	<del>Yes to allowance</del>	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \text{Nil}$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Effective Length (E)
Poop enclosed	86.5	86.5		86.5
" overhang				
R.Q.D. enclosed				
" overhang				
Bridge enclosed				
" overhang aft				
" overhang forward				
F'cle enclosed	38	38		38
" overhang				
Trunk aft 19' x 29'		120.4	7.0	120.4
" forward 46'				
Tonnage opening aft				
" " forward				
Total	124.5	244.9		244.9

Standard Height of Superstructure	6.655
" " R.Q.D.	
Deduction for complete superstructure	36.36
Percentage covered $\frac{S}{L} =$	39.46
" " $\frac{S_1}{L} =$	77.62
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	72.37
(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 =	36.36 x .7237 = -26.31

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	41.55	1		20.775		1	
$\frac{1}{8}L$ from A.P.		4				4	
$\frac{2}{8}L$ "		2				2	
Amidships		4				4	
$\frac{2}{8}L$ from F.P.		2				2	
$\frac{1}{8}L$ "		4				4	
F.P.		1				1	
Total			373.98				186.97

Mean actual sheer aft =  
Mean standard sheer aft =

Mean actual sheer forward =  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =  
L

" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{186.97(1.75 - .1973)}{18} = +5.74$   
If limited on account of midship superstructure.

If limited to maximum allowance of 1½ 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.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = 17.54	$\Delta =$	Depth Correction ...
Summer freeboard 1.78	Tons per inch immersion at summer load water line	Deduction for superstructures ...
Moulded draught (d) = 15.76	T =	Sheer correction ...
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ...
Winter freeboard = $\frac{d}{4}$ inches =		Correction for Thickness of Deck amidships ...
Addition for Winter North Atlantic Freeboard (if required) =		Other corrections, scantlings, etc. ...

+	-
	8.47
	26.31
	5.74
	34.78
5.74	26.31
	-20.57
	29.04
	21.37

Summer Freeboard = 29.84

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

Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line below	"	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"