

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name HORNO.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 244.58 Breadth 37.50 Depth 17.67					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables 782					Particulars of Classification

DEPTH FOR FREEBOARD (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 17.71	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = + 2.65 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ - .03
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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	182.15	175.15			175.15

Standard Height of Superstructure
" " R.Q.D.
Deduction for complete superstructure **30.46**
Percentage covered $\frac{S}{L} =$ **74.47**
" " $\frac{S_1}{L} =$ } **71.61**
" " $\frac{E}{L} =$ }
Percentage from Table, Line **A. TIMBER.** **82.47**
(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 = **30.46 × .8247 = - 25.12**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{2}L$ from A.P.		4				4	
$\frac{1}{2}L$ "		2				2	
Amidships		4				4	
$\frac{1}{2}L$ from F.P.		2				2	
$\frac{1}{2}L$ "		4				4	
F.P.		1				1	
Total							

Mean actual sheer aft =
Mean standard sheer aft =
Mean actual sheer forward =
Mean standard sheer forward =
Length of enclosed superstructure forward of amidships =
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **- 1.95**
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. Depth to Freeboard Deck = 17.71 Summer freeboard = .76 Moulded draught (d) = 16.95 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.24 = 108/- Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = 5.65 = 144/-	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 = $\frac{\Delta}{40 T}$ inches = 108 -/-	TABULAR FREEBOARD corrected for Flush Deck (if required) 1.462 Correction for coefficient 1.36 Depth Correction 2.65 Deduction for superstructures 25.12 Sheer correction 1.95 Round of Beam correction03 Correction for Thickness of Deck amidships Other corrections, scantlings, etc. 2.65 27.10 - 24.45 Summer Freeboard = 9.12	31.22 33.57 13.4.50
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TIMBER

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

Timber	Tropical Fresh Water Line above Centre of Disc	352	Timber	Tropical Fresh Water Freeboard	15
"	Fresh Water Line	244	"	Fresh Water	23
"	Tropical Line	244	"	Tropical	23
"	Winter Line below	8	"	Winter	23
"	Winter North Atlantic Line	156	"	Winter North Atlantic	23