

CSS without Tonnage opening.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. **30889**
(For London Office only).

Ship's Name Abana.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 480.0' Breadth 61.0' Depth 43.75 - 8 = 35.75'					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Efficient of fineness for use with Tables .68 (.678 actual)					Particulars of Classification

Depth for Freeboard (D). Moulded depth 35.75' Summer plate .04 Rising on exposed deck $R = \frac{L-S}{L}$ Depth for Freeboard (D) = 35.79'	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (35.79 - 32.00) \times 3 = 11.37$ 3.79 (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Standard Difference Restricted to Correction = $\frac{\text{Diff}^a}{4} \times (1 - \frac{S_1}{L}) =$ Nil
---	---	---

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Superstructure enclosed ...					
Overhang ...					
Forecastle enclosed ...					
Overhang ...					
Large enclosed ...					
Overhang aft ...					
Overhang forward ...					
Enclosed ...					
Overhang ...					
Deck aft ...					
Forward ...					
Deck opening aft ...					
Forward ...					
Total ...					

Complete Superstructure

Standard Height of Superstructure 7.5'	R.Q.D.
Deduction for complete superstructure 42.00	
Percentage covered $\frac{S}{L} =$ 100.00	
$\frac{S_1}{L} =$	
$\frac{E}{L} =$	
Percentage from Table, Line A. 100.00	
(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 = 42.00 $\times 1.0000 =$ -42	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..		1				1	
From A.P. ...		4				4	
" ...		2				2	
Ships ...		4				4	
From F.P. ...		2				2	
" ...		4				4	
... ..		1				1	
Total ...							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) =$ **-5**

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 " =

If limited to maximum allowance of 1½ ins. per 100 ft.

Correction for Tropical Freeboard. Correction for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 35.79' Summer freeboard = 5.43' Moulded draught (d) = 30.36' Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Correction for Winter North Atlantic Freeboard (if required) =	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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient 1.0 Depth Correction ... Deduction for superstructures ... Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = 65.17'	96.30 96.30 85.2 1.3 11.37 42.50 -31.13 Summer Freeboard = 65.17'
---	--	--	--

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	"