

X. In strict conformity with Rule XXXV of the Convention, the depth used with the Tables should be not less than $\frac{L}{15} = 26'-0"$ but in view of the shade deck being a strength deck, it is considered this ship should not be penalised for proportions of $\frac{5}{D}$

Rpt. C.11. **Lloyd's Register of Shipping.** Index. No. **21393**
(For London Office only.)

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Shade deck

Port of Survey _____

Date of Survey 24-9-31

Name of Surveyor _____

Particulars of Classification + 100 A1
Shade dk.

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>"Angora"</u>		<u>129535</u>	<u>4298</u>	<u>1911</u>

Moulded Dimensions: Length 390.0 Breadth 49.96 Depth 24.50
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons
Coefficient of fineness for use with Tables _____

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	24.50	(a) Where D is greater than Table depth (D - Table depth) R =	- 26.00	Moulded Breadth (B)	49.96
Stringer plate	04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	- 4.23	Standard Round of Beam = $\frac{B \times 12}{50}$	11.99
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \frac{2.5}{12} \times 246$	05	If restricted by superstructures		Ship's Round of Beam	12.00
Depth for Freeboard (D) =	24.59			Difference	01
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed open	41.16	20.58	8.0		20.58
overhang after shade open	6.16	3.08	8.0		3.08
overhang	107.16	107.16	8.0		107.16
Bridge enclosed	57.08	42.81			42.81
overhang aft	23.50	11.75			11.75
overhang forward	39.00	39.00	8.0		39.00
Fore enclosed	20.00	10.00			10.00
overhang					
Trunk aft					
forward					
Tonnage opening aft					
forward					
Total	294.06	234.38			234.38

Standard Height of Superstructure 7.40
" " R.Q.D. ✓
Deduction for complete superstructure 41.33
Percentage covered $\frac{S}{L} = \frac{294.06}{234.38} = 100\%$
" " $\frac{S_1}{L} = 60.09$
" " $\frac{E}{L} = 60.09$
Percentage from Table, Line A. ✓
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 46.15
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required) ✓
Deduction = 41.33 \times 46.15 = -19.07

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	49.00	1			48.00	55.20	1		55.20
$\frac{1}{4}$ L from A.P.		4			18.17	24.56	4		98.24
$\frac{2}{4}$ L		2			4.54	6.07	2		12.14
Amidships		4			-	-	4		-
$\frac{2}{4}$ L from F.P.		2			12.05	12.67	2		25.34
$\frac{1}{4}$ L		4			48.19	51.26	4		205.04
F.P.	98.00	1			108.00	115.20	1		115.20
Total				441.00					511.16

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{70.16}{18} (.75 - .50) = - .97$
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.		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 =	<u>24.59</u>	$\Delta =$		Depth Correction	4.23
Summer freeboard =		Tons per inch immersion at summer load water line		Deduction for superstructures	19.07
Moulded draught (d) =		T =		Sheer correction	.97
Deduction for Tropical freeboard and addition for		Deduction = $\frac{\Delta}{40T}$ 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.	✓
				Summer Freeboard =	68.40

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	"