

Basic & S.S. Draught
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. _____
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____	
having <u>C.S.S.</u>					Date of Survey <u>7/11/35</u>	
(Type of Superstructures.)						
Ship's Name <u>KARoola</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Name of Surveyor _____	
Moulded Dimensions: Length <u>419.70</u> Breadth <u>56.00</u> Depth <u>28.33"</u>					Particulars of Classification _____	
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>10 880 tons</u>						
Coefficient of fineness for use with Tables <u>.673</u> (<i>below .68</i>)						

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>28.33</u>	(a) Where D is greater than Table depth .39 (D - Table depth) R = <u>(28.33 - 27.98) 3.00</u> <u>= + 1.17"</u>	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <u>Assumed Standard</u>
Stringer plate <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <u>✓</u>	Difference
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <u>✓</u>	If restricted by superstructures <u>✓</u>	Restricted to
Depth for Freeboard (D) = <u>28.37</u>		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil.</u>

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					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

C.S.S.

Standard Height of Superstructure 7'-6" - "
 " " R.Q.D. ✓
 Deduction for complete superstructure 42.00"
 Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$
 $\frac{E}{L} =$ } 100%
 Percentage from Table, Line A.
 (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"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>51.97</u>	1		<u>51.97</u>			1		
$\frac{1}{8}$ L from A.P.	<u>23.12</u>	4		<u>92.48</u>			4		
$\frac{3}{8}$ L "	<u>5.715</u>	2		<u>11.43</u>			2		
Amidships	<u>✓</u>	4		<u>✓</u>			4		
$\frac{3}{8}$ L from F.P.	<u>11.43</u>	2		<u>22.86</u>			2		
$\frac{1}{8}$ L "	<u>46.25</u>	4		<u>185.00</u>			4		
F.P.	<u>103.94</u>	1		<u>103.94</u>			1		
Total	<u>467.73</u>			<u>467.68</u>					

Assumed Standard

Mean actual sheer aft = Deficient
 Mean standard sheer aft = Deficient
 Mean actual sheer forward = Deficient
 Mean standard sheer forward = Deficient
 Length of enclosed superstructure forward of amidships = ✓
 " " aft of " = ✓ C.S.S.
 Rule T.D. = 8'-0"
 Standard = 7'-6"
 Diff = 16"

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - .50"
 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
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Corrected for Flush Deck (if required)
Depth to Freeboard Deck = <u>28.37</u>	$\Delta =$	Correction for coefficient
Summer freeboard = <u>3.03</u>	Tons per inch immersion at summer load water line	
Moulded draught (d) = <u>25.34</u>	T =	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.33</u>	Deduction = $\frac{\Delta}{40 T}$ inches =	
Addition for Winter North Atlantic Freeboard (if required) =		

+	-
1.17	-
-	42.00
-	.50
-	-
-	-
-	-
1.17	42.50
<u>- 41.33</u>	

 Summer Freeboard = 36.37

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 " "

© 2021

Lloyd's Register Foundation

85% of 28.37 =

24.08
 .21 Keel
24.29

24.42
22.54
1.88 for 1000

24.42
24.29
.13

11 1000
 66
10934

44.33 T.P.1
22.16
66.49



© 2021

Lloyd's Register
Foundation