

AS FREIGHTER

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>geometric Freeboard</u> <u>as Freighter</u> (Type of Superstructures.)					Date of Survey <u>23-6-32</u>	
Ship's Name <u>SIR JAMES CLARK ROSS</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Name of Surveyor _____	
Moulded Dimensions: Length <u>535.25</u> Breadth <u>74.0</u> Depth <u>48.75</u>					Particulars of Classification _____	
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons						
Coefficient of fineness for use with Tables <u>846</u>						
Depth for Freeboard (D)			Depth correction		Round of Beam correction	
Moulded depth			(a) Where D is greater than Table depth (D - Table depth) R = <u>+39.99</u>		Moulded Breadth (B)	
Stringer plate			(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50} =$	
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$			If restricted by superstructures		Ship's Round of Beam =	
Depth for Freeboard (D) = <u>49.01</u>					Difference	
					Restricted to	
					Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = +2.35$	

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure _____
„ overhang						„ „ R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure <u>42.00</u>
„ overhang						Percentage covered $\frac{S}{L} = 20.32$
Bridge enclosed						„ „ $\frac{S_1}{L} = 20.04$
„ overhang aft						„ „ $\frac{E}{L} = 20.04$
„ overhang forward						Percentage from Table, Line A. <u>10.02</u> <u>23.5</u>
F'cle enclosed						(corrected for absence of forecastle (if required))
„ overhang						Percentage from Table, Line B. <u>27.5</u>
Trunk aft						(corrected for absence of forecastle (if required))
„ forward						Interpolation for bridge less than 2L (if required) <u>25.5</u>
Tonnage opening aft						Deduction = <u>42.00</u> <u>1002</u> = <u>-4.21</u> <u>10.71</u>
„ „ forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P.		1				1		Mean actual sheer aft =
$\frac{1}{2}$ L from A.P.		4				4		Mean standard sheer aft =
$\frac{3}{8}$ L „		2				2		Mean actual sheer forward =
Amidships		4				4		Mean standard sheer forward =
$\frac{3}{8}$ L from F.P.		2				2		Length of enclosed superstructure forward of amidships =
$\frac{1}{2}$ L „		4				4		„ „ aft of „ =
F.P.		1				1		
Total								

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

+19.17

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.

Ft.

Depth to Freeboard Deck = 49.06

Summer freeboard = 15.46

Moulded draught (d) = 33.60

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 8.40 8 1/2

Addition 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 Flush Deck (if required)

Correction for coefficient

	<u>1.526</u>	
	<u>1.36</u>	-
Depth Correction	<u>39.99</u>	-
Deduction for superstructures	-	<u>4.21</u>
Sheer correction	<u>19.17</u>	-
Round of Beam correction	<u>2.35</u>	-
Correction for Thickness of Deck amidships	<u>.60</u>	-
Other corrections, scantlings, etc.	<u>1.50</u>	-
	<u>62.61</u>	<u>4.21</u>
	<u>42.44</u>	<u>18.71</u>

Summer Freeboard = 185.47 159.80

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 „ „	

8 1/2

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