

25 MAR 1946

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, ~~TANKER~~)

Hd 6223

Ship's Name T.S.S. "ROBINA"	Official Number 135726	Nationality and Port of Registry BRITISH FALMOUTH	Gross Tonnage 306	Date of Build 1914 5	Port of Survey LIVERPOOL
Moulded Dimensions: Length 160.00' Breadth 26.00' Depth 9.50'					Dates of Survey 16th, 19th & 21st March, 1946
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature Harish C. Murray
Coefficient of fineness for use with Tables .68 assumed					Particulars of Classification +A for hoisting service Plymouth to Swansea (contemplated)

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	9.50	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	26.00
Stringer plate	.03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	6.24"
Sheathing on exposed deck 2 1/4"	.12	(10.67 - 9.65) 1.230 = -1.25"		Ship's Round of Beam 6 1/2"	6.50"
$T \left(\frac{L-S}{L} \right) = 19 \times .6125$		If restricted by superstructures Yes not allowed		Difference	.26"
Depth for Freeboard (D) =	9.65			Restricted to	
				Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.26}{4} \times .8063 = -.05"$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Effective Length (E)
Poop enclosed				
" overhang				
R.Q.D. enclosed				
" overhang				
Bridge enclosed OPEN	62.00	31.00	7.00	31.00
" overhang aft			2 1/4" WOOD	
" overhang forward				
F'cle enclosed				
" overhang				
Trunk aft				
" forward				
Tonnage opening aft				
" " forward				
Total	62.00	31.00		31.00

Standard Height of Superstructure	6.00
" " R.Q.D.	
Deduction for complete superstructure	22.00
Percentage covered $\frac{S}{L} =$	38.75
" " $\frac{S_1}{L} =$	19.37
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	9.69 - 5 =
(corrected for absence of forecastle (if required))	4.69
Percentage from Table, Line B.	12.29 - 5 =
(corrected for absence of forecastle (if required))	7.29
Interpolation for bridge less than .2L (if required)	4.69 + 2.58 = 7.27
Deduction =	22.00 - 7.27 = 14.73

SHEER CORRECTION.						
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S
A.P.	26.00	1	26.00	17.00	17.00	1
1/4 L from A.P.	11.57	4	46.28	7.00	7.00	4
3/4 L	2.86	2	5.72	1.75	1.75	2
Amidships	-	4	-	-	-	4
3/4 L from F.P.	5.72	2	11.44	3.65	3.65	2
1/4 L	23.14	4	92.56	14.50	14.50	4
F.P.	52.00	1	52.00	33.00	33.00	1
Total			234.00			

Mean actual sheer aft = < 1
Mean standard sheer aft = < 1

Mean actual sheer forward = < 1
Mean standard sheer forward = < 1

Length of enclosed superstructure forward of amidships = $\frac{S}{L}$ Deficient
aft of " = $\frac{S}{L}$ Deficient

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{87.20}{18} (.75 - .1937) = +2.69"$
If limited on account of midship superstructure. $\frac{556}{18}$ If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 9.72
Summer freeboard = 2.21
Moulded draught (d) = 7.51

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 1.88 = 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 = $\frac{\Delta}{40 T}$ inches

2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction		
Deduction for superstructures		1.59
Sheer correction	2.69	
Round of Beam correction		.05
Correction for Thickness of Deck amidships	.84	
Other corrections, scantlings, etc.	7.71	
Summer Freeboard	11.24	1.64

Summer Freeboard = 26.50

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

Tropical Fresh Water Line above Centre of Disc **Not assigned**
Fresh Water Line " " **Not assigned**
Tropical Line " " **Not assigned**
Winter Line below " " **Not assigned**
Winter North Atlantic Line " " **Not assigned**

Tropical Fresh Water Freeboard **Not assigned**
Fresh Water " " **Not assigned**
Tropical " " **Not assigned**
Winter " " **Not assigned**
Winter North Atlantic " " **Not assigned**

11b.

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation