

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

WISCA. 40129. SIMILAR.

Ship's Name RAHUMANI (Ex Vic 31)	Official Number	Nationality and Port of Registry (British) Ceylonese COLOMBO	Gross Tonnage	Date of Build	Port of Survey COLOMBO
Moulded Dimensions: Length 66'-9" ✓ Breadth 18'-6" ✓ Depth 9'-6" ✓ Freeboard Length 66'-6" Breadth over Belting 18'-8"					Date of Survey 6th March 1950
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature T. H. Noel
Coefficient of fineness for use with Tables 82. ASSUMED ✓					Particulars of Classification +100A For restricted Coasting Services

DEPTH FOR FREEBOARD (D).

Moulded depth **9'-6"**

Stringer plate ... Main Deck ... **3'-83"**

Sheathing on exposed deck **NONE**

$T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) = **9'-53"**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R =
 $(9.53 - 4.45) \cdot 513 = +2.61$ ✓

(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =

If restricted by superstructures ✓

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) **18'-42"** ✓

Standard Round of Beam = $\frac{B \times 12}{50} = 4.42$ ✓

Ship's Round of Beam = **6"** ✓

Difference = **1'-58"** ✓

Restricted to

Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{1.58}{4} \times 0.637 = -0.27$ ✓

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	21'-3" ✓	21'-25"	36"		21'-25" ✓
" overhang	Nil				
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	21'-3" ✓	21'-25"			21'-25" ✓

Standard Height of Superstructure **6'-00"** ✓

" " R.Q.D. **3'-00"** ✓

Deduction for complete superstructure **12'-68"**

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ } **31.83** ✓

" " $\frac{E}{L} =$

Percentage from Table, Line A. **16.55** ✓

(corrected for absence of forecastle (if required)) **11.55** ✓

Percentage from Table, Line B. ✓

(corrected for absence of forecastle (if required)) ✓

Interpolation for bridge less than 2L (if required)

Deduction = **12'-68" + 11.55 = -1'-46"** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	16.675	1		16.67	60"-36"	24.0	1		24.0
$\frac{1}{2}$ L from A.P.	7.42	4		29.68	44"-36"	8.0	4		32.0
$\frac{2}{3}$ L "	1.83	2		3.66	21"	2.5	2		5.0
Amidships	-	4		-	0"	✓	4		✓
$\frac{2}{3}$ L from F.P.	3.67	2		7.34	31"	3.5	2		7.0
$\frac{1}{2}$ L "	14.84	4		59.36	161"	16.5	4		66.0
F.P.	33.35	1		33.35	36"	36.0	1		36.0
Total				150.06					170.0

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{S}{2L}}{.75} \right) = \frac{19.94}{18} \cdot \left(\frac{.75 - .1592}{.75} \right) = -.65$

If limited on account of midship superstructure. **Yes. NO ALLOWANCE.** ✓

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.

Depth to Freeboard Deck = **9'-53"**

Summer freeboard = **.69**

Moulded draught (d) = **8'-84"** ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **2'-21" = 2'-4"** ✓

Addition for Winter North Atlantic Freeboard (if required) = **NOT ASSIGNED.**

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'-2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{82 \cdot 68}{1 \cdot 36} = \frac{1 \cdot 50}{1 \cdot 36}$

	+	-
Depth Correction	2.61	✓
Deduction for superstructures	✓	1.46
Sheer correction	✓	✓
Round of Beam correction	✓	.27
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	2.61	1.73
		+ .88

Summer Freeboard = **8'-25"**

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

Tropical Fresh Water Line above Centre of Disc ... **4'-3"** ✓

Fresh Water Line " " ... **2'-4"** ✓

Tropical Line " " ... **2'-4"** ✓

Winter Line below " " **NOT ASSIGNED.**

Winter North Atlantic Line " " **NOT ASSIGNED.**

Tropical Fresh Water Freeboard **0'-3 1/4"**

Fresh Water " **0'-3 1/2"**

Tropical " **0'-5 3/4"**

Winter " **NOT ASSIGNED.**

Winter North Atlantic " **NOT ASSIGNED.**

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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