

Amended Computation

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
Index No.
Govt. Copy
Owners C11

Ship's Name SERAMBAN	Official Number	Nationality and Port of Registry Singapore	Gross Tonnage 522	Date of Build	Port of Survey
Moulded Dimensions: Length 140'-4 3/8" Breadth 27'-0" Depth 18'-0"					Date of Survey 18.6.53
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1323 tons (excluding bossing)					Particulars of Classification B-S*(14.160)
Coefficient of fineness for use with Tables .7984					

DEPTH FOR FREEBOARD (D). Moulded depth ... 18'00" Stringer plate021 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 18'021	DEPTH CORRECTION. (a) Where D is greater than Table depth $(\frac{D}{Table\ depth})^2 \times R = +9.35'$ (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) 27 Standard Round of Beam = $\frac{B \times 12}{50} = 6.48$ Ship's Round of Beam = 7.29 (eqn) Difference .81 Restricted to Correction = $\frac{Diff}{4} \times (1 - \frac{S_1}{L}) = \frac{.81}{4} \times .862 = .179$
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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 <i>open</i>	32.5	16.25	7.0	—	16.25
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	32.5	16.25			16.25

Standard Height of Superstructure **6'0"**

" " R.Q.D.

Deduction for complete superstructure **20.04**

Percentage covered $\frac{S}{L} = 23.16$

" $\frac{S_1}{L} = 11.58$

" $\frac{E}{L} = 11.58$

Percentage from Table, Line A. **5.79**
(corrected for absence of forecastle (if required)) **.79**

Percentage from Table, Line B. **7.31**
(corrected for absence of forecastle (if required)) **2.31**

Interpolation for bridge less than .2L (if required) **.79 + 1.52 x 11.58 / 20 = 1.67**

Deduction = **20.04 x .0167 = .3347 = 1.67**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
1/4 L from A.P.		4				4	
2/4 L " "		2				2	
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.		2				2	
1/4 L " "		4				4	
F.P.		1				1	
Total			216.234				

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{216.234}{18} (.75 - 11.58) = 7.623$

If limited on account of midship superstructure. **.6342** 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 = **18.02** Ft.

Summer freeboard = **8.04**

Moulded draught (d) = **9.98**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **2 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 = $\frac{\Delta}{40 T}$ inches

2 1/2

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... **9.35**

Deduction for superstructures ... **.33**

Sheer correction ... **7.62**

Round of Beam correction ... **.18**

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. **64.55**

Comparison with a summer all weather draught 9'10"-0 1/4

	+	-
Depth Correction	9.35	
Deduction for superstructures		.33
Sheer correction	7.62	
Round of Beam correction		.18
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.	64.55	
Summer Freeboard	81.52	.51
		+ 81.01
		96.50

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

Tropical Fresh Water Line above Centre of Disc ... **2 1/2"**

Fresh Water Line " " ... **2 1/2"**

Tropical Line " " ... **0"**

Winter Line below " " **Not assigned**

Winter North Atlantic Line " " **4"**

Tropical Fresh Water Freeboard ... **7'10 1/2"**

Fresh Water " " ... **7'10"**

Tropical " " ... **8'0 1/2"**

Winter " " **Not assigned**

Winter North Atlantic " " **Not assigned**