

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, OR TUGBOAT~~)

Ship's Name S E R I G I	Official Number	Nationality and Port of Registry Brazilian Rio de Janeiro	Gross Tonnage About 400	Date of Build Launched 1940 Comp. 1946 7 mo.	Port of Survey Marstrand.
Moulded Dimensions: Length 55.000 M. Breadth 9.000 M. Depth 3.700 Metres.					Date of Survey 16th & 18th July, 1946.
Freeboard Length 55.100 Metres.					Surveyor's Signature <i>M. J. Jansson</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 986 M³					Particulars of Classification 100A1 <i>For coasting service between Rivers Amazon & La Plata.</i>
Coefficient of fineness for use with Tables					

Depth for Freeboard (D). M.	Depth correction.	Round of Beam correction.
Moulded depth 3.700	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B) 9.000 M.
Stringer plate .007	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Cant up of deck .025		Ship's Round of Beam = 0.030 M.
Sheathing on exposed deck		Difference
$T \left(\frac{L-S}{L} \right) =$		Restricted to
Depth for Freeboard (D) =	If restricted by superstructures	Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop. enclosed	11650		2050		
» overhang	340				
R.Q.D. enclosed					
» overhang					
Bridge enclosed	25300		2050		
» overhang aft	80				
» overhang forward					
F'ele enclosed	8800		2185		
» overhang					
Trunk aft					
» forward					
Tonnage opening aft	1230				
» » forward					
Total	47400				

Standard Height of Superstructure

» » R.Q.D.

Deduction for complete superstructure

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

» » $\frac{S_1}{L} =$

» » $\frac{E}{L} =$

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 =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1			706		1		
1/6 L from A.P.		4			262		4		
2/6 L »		2			37		2		
Amidships		4			0		4		
2/6 L from F.P.		2			167		2		
1/6 L »		4			535		4		
F.P.		1			1109		1		
Total									

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

If limited on account of midship superstructure.

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

» » aft of » =

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.	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	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient
Depth to Freeboard Deck =		Depth Correction
Summer freeboard =		Deduction for superstructures
Moulded draught (d) =		Sheer correction
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =		Round of Beam correction
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships
		Other corrections, scantlings, etc.
		Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, **25 mm. cant up of** ~~XXXX~~ 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

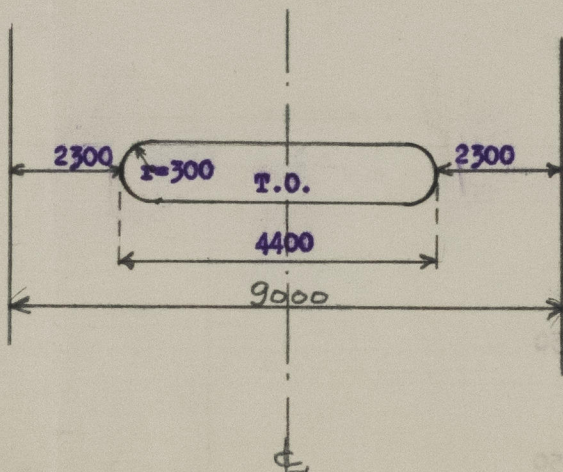
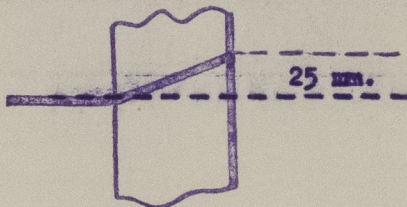
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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Displacements and tons per inch immersion:

<u>Moulded depth:</u>	<u>Displacement:</u>	<u>Tons per inch:</u>
75%	858	9.4
85%	994	9.72
95%	1136	10.03

The freeboard deck has a cant up:




Trade of ship..... Coasting service between the Rivers Amazon and La Plata.

Names of sister ships ---

Builder's name and yard number A-B. Marstrands Mek. Verkstad, Marstrand, Yard No. 17.

Owners..... Navegacao e Comercio Sergipe Parana S.A., Rio de Janeiro.

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