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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name LA PLATA	Official Number	Nationality and Port of Registry Argentine Buenos Aires	Gross Tonnage 11633	Date of Build 1950	Port of Survey Rotterdam
Moulded Dimensions: Length 160.322 m Breadth 20.726 m Depth 11.277 m					Date of Survey October 1950
Moulded displacement at moulded draught = 85 per cent. of moulded depth 24693 m³ tons					Surveyor's Signature <i>C. M. Viskop</i>
Coefficient of fineness for use with Tables 0.775					Particulars of Classification +100 A1 <i>carrying petroleum in bulk</i> <i>(class contemplated)</i>

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	11.277 m	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(11.277 - 10.689)30 = +152 m/m		Moulded Breadth (B)	20.726 m
Stringer plate ...	0.022 m	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 610		Standard Round of Beam = $\frac{B \times 12}{50}$	0.415
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Ship's Round of Beam	0.415 m
Depth for Freeboard (D) = 11.299 m				Difference	NIL
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right)$	NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>equiv</i> ...	47.512	47.512	2.438	-	47.512
" overhang "	0.133	0.067			0.067
R.Q.D. enclosed ...					
" overhang "					
Bridge enclosed <i>equiv</i> ...	18.117	13.588	2.438	-	13.588
" overhang aft ...					
" overhang forward ...	0.133	0.067			0.067
F'cle enclosed <i>equiv</i> ...	14.563	14.563	2.286	-	14.563
" overhang "	0.314	0.157	2.286	-	0.157
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	80.772	75.954			75.954

Standard Height of Superstructure **2290 m/m**" " R.Q.D. **1067**Deduction for complete superstructure **1067**Percentage covered $\frac{S}{L} = 50.38$ " " $\frac{S_1}{L} = 47.37$ " " $\frac{E}{L} = 38.37$ Percentage from Table, Line A. **Tanker 38.37**
(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 = **1067 x 38.37 = 409 m/m**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	1590	1	1590	0.808	808	1	808
$\frac{1}{8}L$ from A.P. ...	706	4	2824	0.195	195	4	780
$\frac{2}{8}L$ " ...	176.5	2	353	0.000	0	2	-
Amidships ...	-	4	-	0.000	-	4	-
$\frac{3}{8}L$ from F.P. ...	353	2	706	0.000	0	2	-
$\frac{4}{8}L$ " ...	1412	4	5648	0.248	248	4	992
F.P. ...	3180	1	3180	2.100	2100	1	2100
Total ...			14301				4680

Mean actual sheer aft = **Deficient**
Mean standard sheer aft =Mean actual sheer forward = **Deficient 4.5**
Mean standard sheer forward =Length of enclosed superstructure forward of amidships = **Deficient**
" " aft of " = **Shun**Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{9621(.75 - .2519)}{18} = +266 \text{ m/m}$
If limited on account of midship superstructure. **4981** 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 = **11.299 m**
Summer freeboard = **2.550 m**
Moulded draught (d) = **8.749 m**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{42}$ inches = **182 m/m**Addition for Winter North Atlantic Freeboard (if required) = **182 + 131 = 313 = 310 m/m**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 22140 \text{ tons}$
Tons per inch immersion at summer load water line
T = **28.50**Deduction = $\frac{\Delta}{40 T}$ inches
= **194**
= **19 m/m**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	152	-
Deduction for superstructures	-	409
Sheer correction	266	-
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	418	409

Summer Freeboard = **2549**

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

Tropical Fresh Water Line above Centre of Disc	37 ... m
Fresh Water Line	19 ... "
Tropical Line	18 ... "
Winter Line below	18 ... "
Winter North Atlantic Line	31 ... "

Tropical Fresh Water Freeboard	255 ... m
Fresh Water	236 ... "
Tropical	237 ... "
Winter	233 ... "
Winter North Atlantic	286 ... "

"LA PLATA"

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.

Roop at Side 46445
 $\frac{2}{3} \times 1600$ 1067
 47.512

Overhang forward 1.200
 1.067
 .133

Bridge open at aft end. At side 12800
 4250
 17050
 $\frac{2}{3} \times 1600$ 1067
 18117

oh/forward 1.200
 1.067
 .133

Forecastle:- Length at side 14.877

Reus = 6500×685
 14200

.314
 14.563

~ 0/H

~ Equip enclosed

Trade of ship

Ocean Trade

Names of sister ships

"DIRECTOR MADARIAGA"

Builder's name and yard number

Maschinenfabriken Schupwerg von Schmitz & Co NV 597

Owners

Yacimientos Petroliferos Fiscales

Fee

500.-



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