

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 24319
(For London Office only.)

Ship's Name LUXOR	Official Number ✓	Nationality and Port of Registry Paranarior Parana	Gross Tonnage 5544	Date of Build 1915 9	Port of Survey <u>Amsterdam</u> Date of Survey <u>30.7.48</u> Surveyor's Signature <u>I. G. TEN SINTHOFF</u> Particulars of Classification <u>+ 100 A1</u> <u>Coring Deck with freeboard.</u>
Moulded Dimensions: Length <u>380'-0"</u> Breadth <u>48'-6"</u> Depth <u>35'-3"</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>12,000</u> tons					
Coefficient of fineness for use with Tables <u>.761</u> ✓					

DEPTH FOR FREEBOARD (D). Moulded depth 35.25 Stringer plate04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 35.29 ✓	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = $(35.29 - 25.33) 2.923 = + 29.11$ ✓ (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) 48.5 Standard Round of Beam = $\frac{B \times 12}{50} = 11.64$ ✓ Ship's Round of Beam = 9.00 ✓ Difference -2.64 ✓ Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{2.64}{4} \times .8868 = +0.59$
---	---	--

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					
„ overhang aft					
„ overhang forward					
F'cle enclosed	43.0	43.0	3.0	3.0/7.30	17.67 ✓
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	43.0	43.0			17.67

Standard Height of Superstructure 7.30 ✓
 „ „ R.Q.D. _____
 Deduction for complete superstructure 40.67 ✓
 Percentage covered $\frac{S}{L} =$ } **11.32** ✓
 „ „ $\frac{S_1}{L} =$ }
 „ „ $\frac{E}{L} =$ } **4.65** ✓
 Percentage from Table, Line A. **2.325** ✓
 (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 = $40.67 + .02325 = - .95$ ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	48.00	1		48.00	40.00 ✓	40.0	1		40.0
$\frac{1}{2}$ L from A.P.	21.36	4		85.44	17.00 ✓	17.0	4		68.0
$\frac{3}{4}$ L „	5.28	2		10.56	3.00 ✓	3.0	2		6.0
Amidships	-	4		-	-	-	4		-
$\frac{1}{2}$ L from F.P.	10.56	2		21.12	10.5 ✓	10.5	2		21.0
$\frac{3}{4}$ L „	42.72	4		170.88	37.5 ✓	37.5	4		150.0
F.P.	96.00	1		96.00	90.00 ✓	90.0	1		90.0
Total				432.00					375.0

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 „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{57}{18} \left(.75 - \frac{.0566}{2} \right) = + 2.20$ ✓
 If limited on account of midship superstructure.

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 = **35.29** ✓
 Summer freeboard = **14.29** ✓
 Moulded draught (d) = **21.00** ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = ✓

Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 8,000$

Tons per inch immersion at summer load water line

$T = 36$

Deduction = $\frac{\Delta}{40 T}$ inches

= **5.55**

= **5 1/2** ✓

TABULAR FREEBOARD 65.40 + 3.05 partial
 corrected for Flush Deck (if required)

Correction for coefficient $\frac{761 + 68}{1.36} = \frac{1.441}{1.36}$ ✓

Depth Correction **29.11** ✓

Deduction for superstructures **- 0.95** ✓

Sheer correction **2.20** ✓

Round of Beam correction **0.59** ✓

Correction for Thickness of Deck amidships **-**

Other corrections, scantlings, etc. to correspond **68.02**

to all seasons moulded draught of 21'-0"

Summer Freeboard = **171.50**

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

Tropical Fresh Water Line above Centre of Disc **14.0mm. 5 1/2** ✓

Fresh Water Line „ „ **14.0mm. 5 1/2** ✓

Tropical Line „ „ **NIL**

Winter Line below „ „ **NIL**

Winter North Atlantic Line „ „ **NIL**

Tropical Fresh Water Freeboard **4.356mm 14'-3 1/2** ✓

Fresh Water „ „ **4.216mm 13'-10** ✓

Tropical „ „ **4.356mm 14'-3 1/2** ✓

Winter „ „ **4.356mm 14'-3 1/2** ✓

Winter North Atlantic „ „ **4.356mm 14'-3 1/2** ✓