

Ribera 36213.

Index. No. 36411
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

NOV -8 1940

Ship's Name REMBRANDT.	Official Number 168048	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage 5588 net 1624.6.47 APPROX 1940 5400 5559	Date of Build 1940	Port of Survey GREENOCK
Moulded Dimensions: Length 425.634 Breadth 57' 9" Depth 37' 3" To UPPER Dk 29' 3" To SECOND Dk					Date of Survey WHILE BUILDING.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12954. tons					Surveyor's Signature <i>Remondy</i>
Coefficient of fineness for use with Tables .742					Particulars of Classification +100A1. WITH FREEBOARD (CONTEMPLATED)

Depth for Freeboard (D). Moulded depth ... 29.25' Stringer plate57'05' Sheathing on exposed deck $T \left(\frac{L-S}{T} \right) =$ ✓ 2 1/2" WOOD FROM FRAMES 2-19. Depth for Freeboard (D) = 29.30	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(29.30 - 28.37) 3 = +1.79"$.93 (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ ✓ If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 57.75' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.86 Ship's Round of Beam = 14 1/2' Difference Excess .64" Restricted to Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) =$ $\frac{.64}{4} \times .006 =$ Neg.
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	44' 1 1/4"	44.10	8' 0" ✓	✓	44.10
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	376' 3 1/2"	376.19	8' 0" ✓	✓	376.19
" overhang aft ...					
" overhang forward ...					
Fore enclosed On Steved 28' 5 1/2"			7' 0"		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	5' 2"	1.59	8' 0" ✓	✓	1.59
" forward ...					
Total ...	425.634	422.98			422.98

Standard Height of Superstructure **7.5'**
 " " R.Q.D. **42.00"**
 Deduction for complete superstructure **42.00"**
 Percentage covered $\frac{S}{L} =$ **100.00**
 " " $\frac{S_1}{L} =$ **99.40**
 " " $\frac{E}{L} =$ **99.40**
 Percentage from Table, Line A. **anal 99.26**
 (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 = **42.00 x .9926 = -41.69"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	52.56	1		52.56	54' ✓	60.00	1		60.00
1/4 L from A.P. ...	23.39	4		93.56	24' ✓	16.70	4		106.80
1/2 L " ...	5.78	2		11.56	6' ✓	6.60	2		13.20
Amidships ...	-	4		-	0' ✓	-	4		-
3/4 L from F.P. ...	11.56	2		23.12	12' ✓	14.54	2		25.08
1/4 L " ...	46.78	4		187.12	48' ✓	50.73	4		202.92
F.P. ...	105.12	1		105.12	108' ✓	114.00	1		114.00
Total ...				473.04	+6"				522.00

Mean actual sheer aft = **Excess**
 Mean standard sheer aft = **Excess**
 Mean actual sheer forward = **Excess**
 Mean standard sheer forward = **Excess**
 Length of enclosed superstructure forward of amidships = **C.S.S.**
 " " aft of " = **C.S.S.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75 - \frac{S}{2L}}{2L} \right) =$ **48.96 (75 - 50) = -68"**
 If limited on account of midship superstructure.

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 = 29.30 Summer freeboard = 3.62 Moulded draught (d) = 25.68 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.42 = 6 1/2" Addition for Winter North Atlantic Freeboard (if required) = ✓	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 25-12973 13450 $\Delta =$ 26-13561 Tons per inch immersion at summer load water line $T =$ 25-48.58 4840 $T =$ 26-49.00 Deduction = $\frac{\Delta}{40T}$ inches $=$ 6.88" $=$ 7"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 68 + 742 = 1.422 / 1.36 1.36 Depth Correction ... 2.79 Deduction for superstructures ... 41.69 Sheer correction68 Round of Beam correction ... - Correction for Thickness of Deck amidships ... - Other corrections, scantlings, etc. ... - 2.79 42.37 -39.58 Summer Freeboard = 43.56	79.52" 83.14" 81.8 9.11"
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ...	13 1/2"	Tropical Fresh Water Freeboard ...	2 1/2"
Fresh Water Line " " ...	7"	Fresh Water " " ...	3' 0 1/2"
Tropical Line " " ...	6 1/2"	Tropical " " ...	3' 1"
Winter Line below " " ...	6 1/2"	Winter " " ...	4' 2"
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	✓

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RECEIVED 6/12/40

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 INTERNATIONAL

Names of sister ships RIBERA. LITHGOWS LTD N° 925. GREENOCK REPORT N° 20915.

Builder's name and yard number LITHGOWS LTD N° 937.

Owners THE BOLTON STEAM SHIPPING CO LTD

APPROV Fee £ 16 0 0

TO BE RENDERED WITH FIRST ENTRY



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