

Port of Call
37652

Rpt. C.11 (Comp.)

C.S.D.

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, ~~TANKER~~)

Received
Index No.
Govt. Copy
Owners C11

Ship's Name SAN ROBERTO PACIFIC BREEZE	Official Number	Nationality and Port of Registry PANAMANIAN PANAMA	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 410.62 to c.r.s. Breadth 56.0' Depth 39'-10"					Date of Survey 23/7/62
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification +100A' with freeboard
Coefficient of fineness for use with Tables .765					

DEPTH FOR FREEBOARD (D). Moulded depth ... 39.83 Stringer plate05 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 39.88	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (39.88-27.37)3 = 37.53 12.51 (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) 56.00' Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.44 Ship's Round of Beam = 14.00 Difference .56 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) =$.56 4 = .14
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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 ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...					

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. ...	51.06	1	51.06	35.50	35.50	1	35.50
1/4 L from A.P. ...	22.72	4	90.88	16.00	16.00	4	64.00
1/2 L " ...	5.61	2	11.22	4.50	4.50	2	9.00
Amidships ...	0	4	0	0	0	4	0
3/4 L from F.P. ...	11.23	2	22.46	13.00	13.1274	2	25.48
1/4 L " ...	45.44	4	181.76	50.00	50.4932	4	197.28
F.P. ...	102.12	1	102.12	119.00	119.10798	1	107.98
Total ...			459.50				439.24

Mean actual sheer aft = **Deficient**
Mean standard sheer aft = **713**

Mean actual sheer forward = **Excess but limited**
Mean standard sheer forward = **713**

Length of enclosed superstructure forward of amidships = **Flush Deck**
" " aft of " = **No superstructure**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{20.26}{18} \times .75 = +.84"$
If limited on account of midship superstructure. If limited to maximum allowance of 1 1/4 ins. per 100ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **39.88**
Summer freeboard = **11.96**
Moulded draught (d) = **27.92**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **6.98" = .7'**

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
= **7 1/2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient

	+	-
Depth Correction	37.53	-
Deduction for superstructures	-	-
Sheer correction	-	-
Round of Beam correction	-	.14
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	20.10	-
Summer Freeboard	143.50	

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

31 JUL 1962

Tropical Fresh Water Line above Centre of Disc	14 1/2	368 2/4	Tropical Fresh Water Freeboard	10' - 2 1/2"	36.45
Fresh Water Line	7 1/2	190 4	Fresh Water	11' - 4"	32.77
Tropical Line	7 1/2	178 4	Tropical	11' - 4 1/2"	34.55
Winter Line below	7 1/2	178 4	Winter	12' - 6 1/2"	34.67
Winter North Atlantic Line	7 1/2	178 4	Winter North Atlantic	not required	38.23

San Roberto

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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.

Sheer forward. (Sheer aft .713 of standard)				$\frac{71.3 - 50}{25} = .852$
	A.T.	$\frac{7}{16}$	$\frac{7}{8}$	
Actual Sheer	119.00	50.00	13	
Standard Sheer	102.12	45.44	11.23	
Diff.	6.88	4.56	1.77	
Diff x .852	{ 5.86	{ 3.88	{ 1.51	
Standard Sheer	{ 102.12	{ 45.44	{ 11.23	
Allowable Sheer	107.98	49.32	12.74	

Trade of ship.....

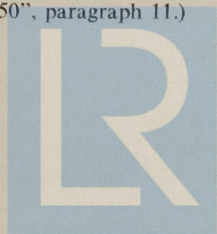
Names of sister ships.....

Builder's name and yard number.....

Owners

Fee £.....:.....:.....

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



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