

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>REINA DEL PACIFICO.</b>	Official Number <b>162339</b>	Nationality and Port of Registry <b>LIVERPOOL</b> <b>BRITISH.</b>	Gross Tonnage <b>17872</b>	Date of Build
Moulded Dimensions: Length <b>550.0'</b> Breadth <b>76.0'</b> Depth <b>44.06'</b>				Port of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>30142</b> tons				Date of Survey <b>23 SEP 1948</b>
Coefficient of fineness for use with Tables <b>(.674 ACTUAL) .68</b>				Surveyor's Signature
				Particulars of Classification

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	44.06	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	76.00'
Stringer plate	.04	(44.11-36.67) 3 = 22.32'		Standard Round of Beam = $\frac{B \times 12}{50}$	18.24"
Sheathing on exposed deck	.25	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	6.00"
$T \left( \frac{L-S}{L} \right) = .25 \times \frac{30}{550} =$	.01			Difference	12.24"
Depth for Freeboard (D) =	44.11	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	$\frac{12.24}{4} \times .0645 = +0.17'$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure <b>7.50</b>
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure <b>42.00</b>
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed	420.00	420.00	8.5		420.00	$\frac{S_i}{L} =$
" overhang aft						$\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A.
Fore enclosed	100.00	100.00	8.5		100.00	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = <b>42.00 × .9330 = 39.19</b>
" forward						
Total	520.00	520.00			520.00	

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	65.00	1		65.00	53.00	53.00	1		53.00	Mean actual sheer aft = DEFICIENT
$\frac{1}{2}$ L from A.P.	28.92	4		115.68	21.32	21.32	4		85.28	Mean standard sheer aft =
$\frac{3}{4}$ L "	7.15	2		14.30	5.33	5.33	2		10.66	Mean actual sheer forward = DEFICIENT
Amidships		4					4			Mean standard sheer forward =
$\frac{3}{4}$ L from F.P.	14.30	2		28.60	11.89	11.89	2		23.78	Length of enclosed superstructure forward of amidships =
$\frac{1}{2}$ L "	57.85	4		231.40	47.58	47.58	4		190.32	" " aft of " =
F.P.	130.00	1		130.00	101.25	101.25	1		101.25	
Total				584.98					464.29	

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{120.69}{18} \left( \frac{.75 - .4728}{2} \right) = +1.86'$

If limited on account of midship superstructure.  $.2772$  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 = **44.27**  
Summer freeboard = **13.10**  
Moulded draught (d) = **31.17**

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = **7.79 = 7 $\frac{3}{4}$**   
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line  
 $\Delta = 24,414$   
Tons per inch immersion at summer load water line  
 $T = 78.96$

Deduction =  $\frac{\Delta}{40 T}$  inches  
**= 7.73 = 7 $\frac{3}{4}$**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **NIL**

	+	-
Depth Correction	22.32	
Deduction for superstructures		39.19
Sheer correction	1.86	
Round of Beam correction	0.17	
Correction for Thickness of Deck amidships	1.88	
Other corrections, scantlings, etc. and to correspond to approved winter moulded draught of 30'-6"	53.81	
	80.04	39.19
Summer Freeboard =	157.25	

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

Tropical Fresh Water Line above Centre of Disc **15 $\frac{1}{2}$**   
Fresh Water Line " **7 $\frac{3}{4}$**   
Tropical Line " **7 $\frac{3}{4}$**   
Winter Line below " **7 $\frac{3}{4}$**   
Winter North Atlantic Line " **7 $\frac{3}{4}$**

Tropical Fresh Water Freeboard **11'-9 $\frac{3}{4}$**   
Fresh Water " **12'-5 $\frac{1}{2}$**   
Tropical " **12'-5 $\frac{1}{2}$**   
Winter " **13'-9**  
Winter North Atlantic " **13'-9**



21 SEP 1948

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Ship's Name *"Reina del Pacifico"*

Official No. 162339

Memorandum of alterations reported since ship was surveyed for assignment of Load Lines in Belfast September 1948.

No 5 hatch trunk extended to D deck, with new hatch coaming 19" above wood deck, 13'-6½" x 16'-0", coaming .44" thick, 2 original hatch web beams, 3" solid wood covers, 2 new tarpaulins, cleats spaced 24" apart, battens, wedges and locking bars fitted.

E deck extended aft to existing docking bridge and construction of materials of same scantlings as remainder of deck. E deck fitted with Bulwark rails 4'-6" high, 5 rods and stanchions spaced about 4'-6" apart.

After well shell opening port & starbd, between C to D deck plated in and additional accommodation fitted in way of this area and several new 12" dia clear glass sidelights fitted.

In reconditioning this vessel, the full 25% portable deadlights in first superstructure deck C to D supplied in accordance to Passenger Regulations.

A.S.S.

Bel. 9.48.

G.H.W.

23 SEP 1948

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Ship's Name "REINA DEL PACIFICO"

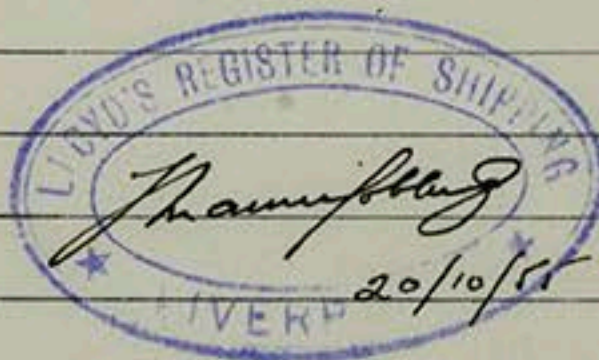
Official No. \_\_\_\_\_

Memorandum of alterations reported since ship was surveyed for assignment of Load Lines  
in \_\_\_\_\_

*Additional sidescuttles fitted (P. & S.), to new accommodation  
on 'A' deck, between bds. 71 & 97.*

*7 off 12" dia. (S.S.) & 6 off 12" dia. (P.S.), also 2 off 10" dia. (P. & S.).*

*All sidescuttles of approved type with hinged deadlights.*



*Copy placed on board ship.*