

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name REINA DEL PACIFICO	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 550 Breadth 76.0 Depth 35.07 to 6 DB					Date of Survey 16.12.46
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables .68					Particulars of Classification

DEPTH FOR FREEBOARD (D).
 Moulded depth **35.07**
 Stringer plate **.03**
 Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
 Depth for Freeboard (D) = **35.10**

DEPTH CORRECTION.
 (a) Where D is greater than Table depth (D-Table depth) R =
 (b) Where D is less than Table depth (if allowed) (Table depth-D) R =
(36.67-35.10) 3.0 = -4.71
 If restricted by superstructures \checkmark

ROUND OF BEAM CORRECTION.
 Moulded Breadth (B)
 Standard Round of Beam = $\frac{B \times 12}{50} = 18.24$
 Ship's Round of Beam =
 Difference
 Restricted to
 Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL}$

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 **7.5**
 " " R.Q.D. _____
 Deduction for complete superstructure **42.00**
 Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$
 $\frac{E}{L} =$ } **100%**
 Percentage from Table, Line A.
 (corrected for absence of forecabin (if required))
 Percentage from Table, Line B.
 (corrected for absence of forecabin (if required))
 Interpolation for bridge less than .2L (if required)
 Deduction = **-42.00**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	65.00	1		65.00	+12	53.00	1		
$\frac{1}{4}$ L from A.P.	28.92	4		115.68			4		
$\frac{1}{2}$ L "	7.15	2		14.30			2		
Amidships		4					4		
$\frac{1}{2}$ L from F.P.	14.30	2		28.60		13.09	2		
$\frac{1}{4}$ L "	57.85	4		231.40		52.95	4		
F.P.	130.00	1		130.00	101.00	119	1		
Total				584.98	+18				464.29

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{120.69}{18} (.75 - .50) = +1.68$
 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 = **35.10**
 Summer freeboard = **5.96**
 Moulded draught (d) = **29.14**

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

$\Delta =$

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient \checkmark

	+	-
Depth Correction		4.71
Deduction for superstructures		42.00
Sheer correction	1.68	
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	1.68	46.71

Summer Freeboard = **71.37**

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

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "