

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Pin to 38269/

Ship's Name "PELAYO"	Official Number 181741	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage 2579 APPROX. 2440	Date of Build 1944 1947.	Port of Survey Sunderland
Moulded Dimensions: Length 330'-5 3/4" Breadth 49'-9" Depth 19'-4" 19.33' 330'-48 1/2" ex. rudder stock.					Date of Survey During construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth 4860 tons					Surveyor's Signature Paul H. Dineen
Coefficient of fineness for use with Tables (0.6296 actual) .68.					Particulars of Classification +100 A1 with 4th. (Contemporary)

Depth for Freeboard (D)	Depth correction.	Round of Beam correction.
Moulded depth ... 19.4" 19.33'	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 49.75'
Stringer plate ... 3/8" .03'	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 11.94'$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	(22.03-19.36) 2.67 = -6.79"	Ship's Round of Beam = 12 1/2'
Depth for Freeboard (D) = 19.36'	If restricted by superstructures ✓	Difference .56'
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.56}{4} \times .069 = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	30.49'	30.49'	8.5'	✓	30.49'	Standard Height of Superstructure 6.805'
" overhang ...	✓					" " R.Q.D. ✓
R.Q.D. enclosed ...	✓					Deduction for complete superstructure 37.36'
" overhang ...	✓					Percentage covered $\frac{S}{L} = 100$
Bridge enclosed ...	✓					" " $\frac{S_1}{L} =$
" overhang aft ...	✓					" " $\frac{E}{L} =$
" overhang forward	✓					Percentage from Table, Line A. 8. 99.15'
Fore enclosed ON F.O.D. 295.49'	295.49'	8.5'	✓	295.49'	(corrected for absence of forecastle (if required))	Percentage from Table, Line B.
" ON C.S.S. 34.49'		7.5'			(corrected for absence of forecastle (if required))	Interpolation for bridge less than 2L (if required)
Trunk aft ...	✓					Deduction = 37.36' x .9915 = -37.04'
" forward ...	✓					
Tonnage opening aft ...	4.5'	2.25'	8.5'	✓	2.25'	
" " forward	✓					
Total ...	330.48'	328.23'			328.23'	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	43.05'	1		43.05'	45.25'	65.59'	1		65.59'	Mean actual sheer aft =
1/4 L from A.P. ...	19.16'	4		76.64'	20.125'	29.19'	4		116.76'	Mean standard sheer aft =
3/4 L " ...	4.73'	2		9.46'	5.125'	7.21'	2		14.42'	Mean actual sheer forward =
Amidships ...	✓	4		✓	✓	✓	4		✓	Mean standard sheer forward =
3/4 L from F.P. ...	9.47'	2		18.94'	9.25'	11.48'	2		22.96'	Length of enclosed superstructure forward of amidships =
1/4 L " ...	38.32'	4		153.28'	31.25'	46.43'	4		185.72'	" " aft of " =
F.P. ...	86.10'	1		86.10'	84'	104.34'	1		104.34'	
Total ...				387.47'	+20.34'				509.79'	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{122.82}{18} \left(\frac{75-.30}{25} \right) = -1.70"$

If limited on account of midship superstructure. ✓

Actual height of lower deck = **8.500'**
Standard " " " = **6.805'**
Difference = **1.695'**

Excess = **20.34'**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 19.36' Summer freeboard = .46' Moulded draught (d) = 18.90' Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.725' = 4 3/4' Addition for Winter North Atlantic Freeboard (if required) = ✓	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 5767 tons Tons per inch immersion at summer load water line $T =$ 29.64' Deduction = $\frac{\Delta}{40T}$ inches = 4.86' = 4 5/4'	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient Int. Depth Correction ... 6.79' Deduction for superstructures ... 37.04' Sheer correction ... 1.70' Round of Beam correction ... 4.94' Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = 5.60'	51.13' 51.13' 49.42' 45.53' - 45.53' 5.60'
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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 ...	8.4"	Tropical Fresh Water Freeboard	0'-2 3/4" MINUS
Fresh Water Line " "	4.4"	Fresh Water	0'-0 3/4"
Tropical Line " "	LIMITED 3 1/2"	Tropical	0'-3 1/4" LIMITED
Winter Line below " "	4.4"	Winter	0'-10 1/4"
Winter North Atlantic Line " "		Winter North Atlantic	

10-9-47

Relay.

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.

03

Displacement at Summer draft $19'0\frac{5}{8}" = 5767$ Tons.

1 inch per inch

$\alpha = 29.64$

Knee = $1\frac{3}{4}"$

Stringer = $\frac{3}{8}"$

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Trade of ship Ussuri Sailing

Names of sister ships PINTO

Same Builders yard no 743

Builder's name and yard number Wm Dwyer & Sons Ltd yard no 744.

Owners MacAndrew & Co. Ltd.

Fee £ 12 : 0 : 0

MLD Will be charged on F.C.



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Foundation