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(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name POLURRIAN EX " DARTMEET "	Official Number 166770	Nationality and Port of Registry British	Gross Tonnage 328	Date of Build 1947.	Port of Survey Dartmouth
Moulded Dimensions: Length 130' 92" ✓ Breadth 25' ✓ Depth 10' 9" ✓ <i>to centre of nadder stock</i>					Date of Survey 3/3/48.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 610 tons ✓					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables .714 ✓					Particulars of Classification + 100 A.1. For Coasting Services

Depth for Freeboard (D). 10.75 ✓	Depth correction.	Round of Beam correction.
Moulded depth ... 10.75 ✓	(a) Where D is greater than Table depth (D - Table depth) R = (10.75 - 8.73) 1.007 = + 2.06" ✓	Moulded Breadth (B) 25' ✓
Stringer plate03 ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 2.05 ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 6"$ ✓
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ -	If restricted by superstructures ✓	Ship's Round of Beam = 6" ✓
Depth for Freeboard (D) = 10.78 ✓		Difference -
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed <i>equiv.</i>	38.17 ✓	38.17 ✓	7' 0" ✓		38.17 ✓	Standard Height of Superstructure 6' 0" ✓
.. overhang ...	6.15 ✓					.. R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 19.09" ✓
.. overhang ...						Percentage covered $\frac{S}{L} =$ 44.18 ✓
Bridge enclosed ...	41.6 ✓		7' 0"			$\frac{S_1}{L} =$
.. overhang aft ...						$\frac{E}{L} =$ 38.30 ✓
.. overhang forward						Percentage from Table, Line A. 22.05 ✓
F'cle enclosed ...	19' 8" ✓	19.67 ✓	3.65' ✓	3.65/6.0 ✓	11.97 ✓	(corrected for absence of forecastle (if required))
.. overhang ...	4' 0" ✓					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 = 19.09 x .2205 = - 4.21" ✓
.. forward						
Total ...	57.84 ✓	57.84 ✓			50.14 ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	23.09 ✓	1		23.09	2' 0"	23.09 ✓	1		23.09 ✓	Mean actual sheer aft = Excess ✓
1/4 L from A.P. ...	10.275 ✓	4		41.10	11 7/8"	10.275 ✓	4		41.10 ✓	Mean actual sheer forward = Deficient ✓
1/2 L " ...	2.54	2		5.08	3 1/2"	2.54 ✓	2		5.08 ✓	Mean standard sheer forward
Amidships ...	-	4		-	0	-	4		-	Length of enclosed superstructure forward of amidships = deficient
3/4 L from F.P. ...	5.08	2		10.16	5"	5.00 ✓	2		10.00 ✓	.. aft of .. = sheer ✓
1/4 L " ...	20.55	4		82.20	11 1/2"	20.50 ✓	4		82.00 ✓	
F.P. ...	46.18 ✓	1		46.18	3' 9"	45.00 ✓	1		45.00 ✓	
Total ...				207.81					206.27 ✓	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{1.54}{18} \left(\frac{.75 - .2209}{.5291} \right) = + .05"$ ✓

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 = **10.78** ✓

Summer freeboard = **.94** ✓

Moulded draught (d) = **9.84** ✓

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **2.46 = 2 1/2** ✓

Addition for Winter North Atlantic Freeboard (if required) = **4 1/2** ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$ **670 tons** ✓

Tons per inch immersion at summer load water line

$T =$ **about 6875 tons.**

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

= **2.43** ✓

= **2 1/2"** ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.68 + .714}{1.36} = 1.334/1.36$ ✓

	+	-
Depth Correction ...	2.06 ✓	
Deduction for superstructures ...		4.21 ✓
Sheer correction05 ✓	
Round of Beam correction ...	✓	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	2.11	4.21

Summer Freeboard = **11.34** ✓

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

Tropical Fresh Water Line above Centre of Disc ...	5" ✓
Fresh Water Line " " ...	2 1/2" ✓
Tropical Line " " ...	2 1/2" ✓
Winter Line below " " ...	2 1/2" ✓
Winter North Atlantic Line " " ...	4 1/2" ✓

Tropical Fresh Water Freeboard ...	0' 11 1/4" ✓
Fresh Water " " ...	0' 6 1/4" ✓
Tropical " " ...	0' 8 3/4" ✓
Winter " " ...	0' 8 3/4" ✓
Winter North Atlantic " " ...	1' 13 1/4" ✓
	1' 33 1/4" ✓

Plurrian.

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.

Poop :-

length at side from A.P. = 36'75 ✓
to centre of middle stow = .92 ✓
 $\frac{2}{3} \times .75$ = .50 ✓
Equiv = 38.17 ✓

Trade of ship Coasting Services

Names of sister ships _____

Builder's name and yard number Messrs. Philip & Son Ltd., Yard No. 1165

Owners Martin Coastal S.S. Co.,

Fee £ _____

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