

38608

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name PRAMPANAN "PANAY" (Launched as "OTTAWA PATIENCE")	Official Number	Nationality and Port of Registry To be Philippines Rockox	Gross Tonnage 850 (Approx.)	Date of Build Under Construction Jan., 1946	Port of Survey Vancouver, B. C.
Moulded Dimensions: Length 210.0 Ft. Breadth 36.5 Ft. Depth 14'-1" to 2nd Deck 21'-8" " Upp. Deck				Date of Survey During construction	
Moulded displacement at moulded draught = 85 per cent. of moulded depth (11'-11 1/2") 1778 tons (T.P.I. = 14.45)				Surveyor's Signature <u>R. M. Scott</u>	
Coefficient of fineness for use with Tables .68 (.678 actual)				Particulars of Classification * 100 A1 with Freeboard, part welded.	

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... 14.08	(a) Where D is greater than Table depth (D-Table depth) R= (14.11-14.02) 1.618 = + .15"	Moulded Breadth (B) 36.5 Ft.
Stringer plate (3" Cant up at Ship's side)027	(b) Where D is less than Table depth (if allowed) (Table depth-D) R=	Standard Round of Beam = $\frac{B \times 12}{50}$ = 8.76"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures -	Ship's Round of Beam Equip. = 3" at centre & (2nd Deck) 2.25" straight to side
Depth for Freeboard (D) = 14.11		Difference 6.51"
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right)$ = $\frac{6.51^2}{4} \times 0.0564 = .09$

DEDUCTION FOR SUPERSTRUCTURES.				
Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)
61.46	61.46	7'-7" Side		61.46
60.5	61.46	8'-1 1/4" Cr.	1.93	1.93
3.87				
71.5	71.50	7'-7" Side		71.50
69.0	51.75	8'-1 1/4" Cr.	11.84	51.75
4.5	11.84	1/2 Diff		11.84
210.0	198.48			198.48

Standard Height of Superstructure 6.00'

" " R.Q.D. -

Deduction for complete superstructure 27.03"

Percentage covered $\frac{S}{L} = 100.00$

" " $\frac{S}{L} = 94.36$

" " $\frac{E}{L} = 94.36$

Percentage from Table, Line A. 93.06
(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 = 27.03 x 93.06 = 25.15"

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	31.03	1	31.03	27.00	48.50	1	48.50
%L from A.P.	13.81	4	55.24	8.50	21.58	4	86.32
%L "	3.415	2	6.83	-	5.33	2	10.66
Amidships	-	4	-	-	-	4	-
%L from F.P.	6.83	2	13.66	-	7.04	2	14.08
%L "	27.62	4	110.48	17.50	28.48	4	113.92
F.P.	62.07	1	62.07	45.00	64.00	1	64.00
Total			279.31	19.00			337.48

Actual Superstructure HT = 7'7"

Standard " = 6'0"

For'd. Excess = 1'7"

Excess Wood Deck = 2 1/2"

Aft. Excess = 1'9 1/2"

Mean actual sheer aft = Excess

Mean standard sheer aft

Mean actual sheer forward = Excess

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =)

" " aft of " =) C.S.S.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{58.17}{18} \times .25 = -.81"$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	Correction for coefficient.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line		24.86"
3" cant up of	$\Delta = 2141$		24.86"
Depth to Freeboard Deck = 14.36	Tons per inch immersion at summer load water line	Depth Correction15	
Summer freeboard = .42	$T = 14.92$	Deduction for superstructures ... 25.15	
Moulded draught (d) = 13.94	Deduction = $\frac{\Delta}{40T}$ inches = 3.56"	Sheer correction81	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.48" = 3 1/2"	= 3 1/2"	Round of Beam correction09	
Addition for Winter North Atlantic Freeboard (if required) = 5 1/2"		Correction for Thickness of Deck amidships ... 3.00	
		Other corrections, scantlings, etc. ...	
		3.24	25.96
			-22.72"
			Summer Freeboard = 2.14"

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 0' 5" (Limited)

Tropical Fresh Water Line above Centre of Disc ... 3 1/2"	Tropical Fresh Water Freeboard ... 0' 1 1/2"
Fresh Water Line " " ... 3 1/2"	Fresh Water " " ... 0' 1 1/2"
Tropical Line " " ... 3 1/2"	Tropical " " ... 0' 5" (Limited)
Winter Line below " " ... 3 1/2"	Winter " " ... 0' 5" (Limited)
Winter North Atlantic Line " " ... 5 1/2"	Winter North Atlantic " " ... 0' 10 1/2"

27.6.46

PRAMIDANAN

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.

Equivalent camber. Mean height = $\frac{3 \times 36.5 \times 12}{2 \times 36.5 \times 12} = 1.5$

Equivalent = $1.5 \times 1.5 = \underline{\underline{2.25}}$

Poop Equivalent Bhd. 60.50

.33

60.83

$\frac{2 \times 11.5}{36.5}$

.63

61.46

equiv. enclosed length

Equiv. overhang $65.33 - 61.46 = 3.87$

Displacement and Tons per Inch at Intermediate Waterlines

	<u>Displacement</u>	<u>T.P.I.</u>
13' W.L.	1961	14.70
14' W.L.	2138	14.92
15' W.L.	2317	15.17

Trade of ship International

Names of sister ships "OTTAWA PAGET" - "OTTAWA PAGE" - "OTTAWA PALMER" etc.

Builder's name and yard number Burrard Dry Dock Co. Ltd. - Yard No. 249 (South Yard)

Owners The De La Rama Steamship Co. Inc.
~~Minister of Maritime and Supply of Canada~~

Fee \$40.00



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Foundation

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