

25 APR 1944

Rpt. C.11 (Comp.).

B.T. COPY

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

Index. No. 3759  
(For London Office only).

Ship's Name **S.S. "PORT LA HAVE"**  
**ANGUSLEN.**

Official Number **169912**

Nationality and Port of Registry **British**  
**London**

Gross Tonnage **7165.84**

Date of Build **1944**

Port of Survey **North Vancouver, B.C.**

Date of Survey **March, 1944**

Surveyor's Signature **J. Sinclair**

Particulars of Classification **Contemplated**  
**\*100 A1 with freeboard**  
**corresponding to a Summer**  
**Moulded Dft. of 26'-10"**

Moulded Dimensions: Length **417.35**  
**416.50'** Breadth **56.90'** Depth **(37.33' to Upper Deck**  
**(28.58' to 2nd Deck**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **16,600** tons

Coefficient of fineness for use with Tables **.771**

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37.33'	(a) Where D is greater than Table depth (D-Table depth) R= (37.33-27.82) 3 = + 28.71		Moulded Breadth (B)	56.9'
Stringer plate	.06'	(b) Where D is less than Table depth (if allowed) (Table depth-D) R=		Standard Round of Beam = $\frac{B \times 12}{50}$	13.66
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$				Ship's Round of Beam	14.00"
Depth for Freeboard (D) =	37.39	If restricted by superstructures		Difference	.34
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	$\frac{.34}{4} = .09$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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

" " R.Q.D.

Deduction for complete superstructure

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

" "  $\frac{S_1}{L} =$  } FLUSH DECK

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

Percentage from Table, Line A.  
(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 = NIL.

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate Ins.	Effective Ordinate	S	M	Product
A.P.	51.73	1		51.73	55.00	55.00	1		55.00
1/4L from A.P.	23.02	4		92.08	23.25	23.25	4		93.00
1/2L	5.69	2		11.38	6.50	6.50	2		13.00
Amidships	-	4		-	-	-	4		-
3/4L from F.P.	11.38	2		22.76	11.63	11.63	2		23.26
1/2L	46.04	4		184.16	46.75	46.75	4		187.00
F.P.	103.47	1		103.47	105.00	105.00	1		105.00
Total				465.58					476.26

Mean actual sheer aft =  
Mean standard sheer aft = } EXCESS.

Mean actual sheer forward =  
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships =  
L

" " aft of " = } FLUSH DECK.

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45$

If limited on account of midship superstructure. No. FLUSH DECK.

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

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		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		Correction for coefficient. $\frac{.771 + .68}{1.36} = \frac{1.451}{1.36}$	
Depth to Freeboard Deck = 37.39		$\Delta = 13,760$		Depth Correction ... 28.71	
Summer freeboard = 10.56		Tons per inch immersion at summer load water line		Deduction for superstructures ...	
Moulded draught (d) = 26.83		T = 48.20		Sheer correction ... .45	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4"		Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4"		Round of Beam correction ... .09	
Addition for Winter North Atlantic Freeboard (if required) =				Correction for Thickness of Deck amidships ...	
				Other corrections, scantlings, etc. To correspond to a summer moulded draught of 26'-10"	
				38.51	54
				Summer Freeboard = 126.75	

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

Tropical Fresh Water Line above Centre of Disc	14"	Tropical Fresh Water Freeboard	9'-6 3/4"
Fresh Water Line	7 1/2"	Fresh Water	9'-11 1/2"
Tropical Line	6 1/2"	Tropical	10'-0 1/2"
Winter Line below	6 1/2"	Winter	11'-1 1/2"
Winter North Atlantic Line		Winter North Atlantic	



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.

Trade of ship.....

Names of sister ships... Burrard Dry Dock Co. Ltd., North Vancouver, B. C. (Yard No. 180)

Builder's name and yard number... Burrard Dry Dock Co. Ltd., North Vancouver, B. C. (Yard No. 202)

Owners... Minister of Munitions & Supply of Canada.

Fee £. \$100.00 *ph*



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