

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 37801
(For London Office only).

Ship's Name ORLAND S. S. "LISCOMB PARK" SAINT MALO	Official Number 175590	Nationality and Port of Registry Canadian Montreal Norwegian Bergen	Gross Tonnage 2877	Date of Build 1944	Port of Survey Pictou, N. S.
Moulded Dimensions: Length _____ Breadth _____ Depth _____					Date of Survey During Construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature Jos. H. Navin
Coefficient of fineness for use with Tables _____					Particulars of Classification + 100 A1 (Contemplated)

Depth for Freeboard (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) =	Depth correction. (a) Where D is greater than Table depth (D—Table depth) R= + 10.72 (b) Where D is less than Table depth (if allowed) (Table depth—D) R= If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = + .02''$
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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 _____
" " R.Q.D. _____
Deduction for complete superstructure **36.03** ✓
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$
" " $\frac{E}{L} =$ **46.21%** ✓
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, ~~Line B~~ **Timber** **66.88**
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = **36.03 x .6688 = 24.10** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
1/2 L from A.P.		4				4	
1/2 L "		2				2	
Amidships		4				4	
1/2 L from F.P.		2				2	
1/2 L "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = + 6.26''$ ✓
If limited on account of midship superstructure.

Mean actual sheer aft =
Mean standard sheer aft =
Mean actual sheer forward =
Mean standard sheer forward =
Length of enclosed superstructure forward of amidships =
" " aft of " =

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 = **25.19** ✓
Summer freeboard = **3.48** ✓
Moulded draught (d) = **21.71** ✓

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **5.42** = **5 1/2** ✓

Addition for Winter North Atlantic Freeboard (if required) = $d/3 = 7.24 = 7 1/4$ ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 6920$ TONS
Tons per inch immersion at summer load water line
 $T = 29.2$ TONS

Deduction = $\frac{\Delta}{40T}$ inches = $\frac{6920}{40 \times 29.2} = 5.9$ ✓ or 6" ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient.

	+	-
Depth Correction	10.72	
Deduction for superstructures		24.10
Sheer correction	6.26	
Round of Beam correction02	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	17.00	24.10 - 7.10
Summer Freeboard	41.65	

48.75**82.8**
12.11.44

TIMBER	SUMMER FREEBOARD	amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—	3' 5 1/4" ✓	1060
Timber	Tropical Fresh Water Line above Centre of Disc	23 1/2" 23 3/4" 50 1/4"	Tropical Fresh Water Freeboard	2' 1.6 1/4" 2' 6 1/4" 768
"	Fresh Water Line	18" 18 1/4" 46 1/4"	Fresh Water	3' 1.0" 2' 11 3/4" 908
"	Tropical Line	17 3/4" 45 1/2"	Tropical	3' 1.0" 920
"	Winter Line	5" 128"	Winter	4' 1.1" 1244
"	Winter North Atlantic Line	7 1/4" 184"	Winter North Atlantic	5' 1.1" 1556
"	SUMMER LINE	12 1/4" 312		

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.....

Builder's name and yard number.....

Owners

Fee £.....



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Foundation