

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
"MANITOU PARK"	174811	CANADIAN MONTREAL	2877.8	1943	Pictou, Nova Scotia
Moulded Dimensions: Length 310.44 Breadth 46.33 Depth 25.16.					Date of Survey during construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature J. H. Nain +100 A1 (Contemplated)
Coefficient of fineness for use with Tables .761.					Particulars of Classification

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R = + 10.72 ✓	Moulded Breadth (B)
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = + 02'' \checkmark$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure 6.604 ✓
Poop enclosed	31.21		7.75			" " R.Q.D. ✓
" overhang	2.00					Deduction for complete superstructure 36.03 ✓
R.Q.D. enclosed						Percentage covered $\frac{S}{L} =$
" overhang						" " $\frac{S_1}{L} =$
Bridge enclosed	76.00		9.0			" " $\frac{E}{L} = 46.21\% \checkmark$
" overhang aft	4.00		"			Percentage from Table, Line A. (corrected for absence of forecastle (if required))
" overhang forward	2.00		"			Percentage from Table, Line B Timber 66.88 (corrected for absence of forecastle (if required))
F'cle enclosed	31.23		7.0			Interpolation for bridge less than 2L (if required)
" overhang						Deduction = 36.03 x .6688 = -24.10" ✓
Trunk aft						
" forward						
Tonnage opening aft						
" " forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft =
A.P.		1				1		Mean standard sheer aft =
$\frac{1}{4}$ L from A.P.		4				4		Mean actual sheer forward =
$\frac{2}{8}$ L "		2				2		Mean standard sheer forward =
Amidships		4				4		Length of enclosed superstructure forward of amidships =
$\frac{2}{8}$ L from F.P.		2				2		" " aft of " =
$\frac{1}{4}$ L "		4				4		
F.P.		1				1		
Total								

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = + 6.26'' \checkmark$ If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required) 46.01
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient 48.75
Depth to Freeboard Deck = 25.19 ✓	$\Delta = 6850$	
Summer freeboard = 3.48 ✓	Tons per inch immersion at summer load water line	
Moulded draught (d) = 21.71 ✓	$T = 29.18$	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.43 = 5 $\frac{1}{2}$ " ✓	Deduction = $\frac{\Delta}{40T}$ inches = 5.87 = 5 $\frac{3}{4}$ "	
Addition for Winter North Atlantic Freeboard (if required) = $d/3 = 7.24 = 7\frac{1}{4}$ " ✓		

Depth Correction	10.72 ✓
Deduction for superstructures	24.10 ✓
Sheer correction	6.26 ✓
Round of Beam correction ... ..	.02 ✓
Correction for Thickness of Deck amidships	
Other corrections, scantlings, etc.	
Summer Freeboard = 41.65	

Timber SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck: 3' 5 $\frac{1}{2}$ "

Timber	Tropical Fresh Water Line above Centre of Disc ...	23 $\frac{1}{2}$ "	Timber	Tropical Fresh Water Freeboard ...	2' 6 $\frac{1}{2}$ "
"	Fresh Water Line " " ...	18"	"	Fresh Water " " ...	3' 0"
"	Tropical Line " " ...	17 $\frac{3}{4}$ "	"	Tropical " " ...	3' 0 $\frac{1}{2}$ "
"	Winter Line below above ...	5"	"	Winter " " ...	4' 1"
"	Winter North Atlantic Line " below ...	7 $\frac{1}{4}$ "	"	Winter North Atlantic " " ...	5' 1 $\frac{1}{2}$ "

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 £.....

NEW FREEBOARD and other particulars from Centre of Base to top of Deck Line, Wood, Steel, Deck			
Tropical from Water Freeboard	...	...	...
Fresh Water	...	...	...
Tropical	...	...	...
Winter	...	...	...
Winter North Atlantic	...	...	...