

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. **32813**
 (For London Office only).

Ship's Name T.S.S. "QUEBEC"	Official Number 153450	Nationality and Port of Registry Canadian Montreal.	Gross Tonnage 7016	Date of Build 1928 5m.	Port of Survey Montreal.
Moulded Dimensions: Length 350'-0" Breadth 68'-6" Depth 21'-0"					Date of Survey 30th March, 1939.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 5495 tons F.W.					Surveyor's Signature a. Hislop.
Coefficient of fineness for use with Tables .68					Particulars of Classification 100 A1. with freeboard. For service between Montreal and Saguenay. (P)

Depth for Freeboard (D). Moulded depth ... 21.00 Stringer plate (.48")04 Sheathing on exposed deck (1 1/2" Asphalt) .13 $T \left(\frac{L-S}{L} \right) =$.04 Depth for Freeboard (D) = 21.17	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth - D) R = (23.33 - 21.04) 2.692 = -6.16 If restricted by superstructures yes no allowance	Round of Beam correction. Moulded Breadth (B) 68'-6" Standard Round of Beam = $\frac{B \times 12}{50} =$ 16.44" Ship's Round of Beam = 10.00" Difference = 6.44 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ 6.44 - +1.61"
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	None				
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...					

Flush Deck

Standard Height of Superstructure **7'-0"**

" " R.Q.D. **✓**

Deduction for complete superstructure **38.67"**

Percentage covered $\frac{S}{L} =$ *Scantlings of superstructure are considered too light for a superstructure allowance to be made but sufficient to justify the omission of a flush deck penalty*

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

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

Percentage from Table, Line A. *the omission of a flush deck penalty*
 (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 = **✓**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	45.00	1		45.00	33.00	33.00	1		33.00
1/4 L from A.P. ...	20.025	4		80.10	14.67	14.67	4		58.68
1/2 L " ...	4.95	2		9.90	3.67	3.67	2		7.34
Amidships ...	-	4		-	0	-	4		-
3/4 L from F.P. ...	9.90	2		19.80	8.00	8.00	2		16.00
1/4 L " ...	40.05	4		160.20	32.00	32.00	4		128.00
F.P. ...	90.00	1		90.00	72.00	72.00	1		72.00
Total ...				405.00					315.02

 Mean actual sheer aft = **Deficient**
 Mean standard sheer aft =

 Mean actual sheer forward = **Deficient**
 Mean standard sheer forward =

 Length of enclosed superstructure forward of amidships = **✓**
 " " aft of " = **✓**
Flush Deck deficient sheer

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{89.98}{18} \times .75 = +3.75"$
 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 = **21.04**
 Summer freeboard = **5.29**
 Moulded draught (d) = **15.75**

Deduction for Tropical freeboard and addition for Intermediate Winter freeboard = $\frac{d}{4}$ inches = **3.94 = 4"**
 Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{2}$ inches = **7.87 = 8"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$
 Tons per inch immersion at summer load water line
 $T =$
 Deduction = $\frac{\Delta}{40T}$ inches
 $\checkmark =$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **✓**

Depth Correction ... **3.75**
 Deduction for superstructures ... **1.61**
 Sheer correction ... **6.04**
 Round of Beam correction ... **11.40**
 Correction for Thickness of Deck amidships to correspond with an approved intermediate draught of 15'-6"

	+	-
Depth Correction	3.75	
Deduction for superstructures	1.61	
Sheer correction	6.04	
Round of Beam correction	11.40	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	63.50	

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

Tropical Fresh Water Line above Centre of Diamond ... **✓**
 Fresh Water Line " " " " **✓**
 Tropical Line Intermediate below " " " " **4"**
 Winter Line below " " " " **8"**
 Winter North Atlantic Line " " " " **✓**

Tropical Fresh Water Freeboard ... **5'-3 1/2"**
 Fresh Water " " " " **5'-7 1/2"**
 Tropical Intermediate " " " " **5'-11 1/2"**
 Winter " " " " **5'-11 1/2"**
 Winter North Atlantic " " " " **5'-11 1/2"**

JUN 1939

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the Surveyor should endorse the form on this side with his signature and the date.

Fee \$ 90-00
Exp. \$ 4-00