

AMENDED.

Index No.
(For London Office only.)

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name Royal William.	Official Number 168471	Nationality and Port of Registry CANADIAN MONTREAL.	Gross Tonnage 7128.	Date of Build 1943.	Port of Survey
Moulded Dimensions: Length 417.35 Breadth 56.90 Depth 37.33 To CR. OF RUDDER STOCK					Date of Survey 26 MARCH 1952
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 16600 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .771					Particulars of Classification + 100 A1. WITH FREEBOARD.

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 = (37.38-27.82)3 = +28.68	Moulded Breadth (B) 56.9
Stringer plate05	(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 $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 14
Depth for Freeboard (D) = 37.38		Difference .34
		Restricted to
		Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.34}{4} = -.09$

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					

FRESH DECK

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

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

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

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

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	Effective Ordinate	S M	Product
A.P.	51.73	1	51.73	55.00	55.00	1	55.00
$\frac{1}{8}L$ from A.P.	23.02	4	92.08	23.25	23.25	4	93.00
$\frac{3}{8}L$ "	5.69	2	11.38	6.50	6.50	2	13.00
Amidships	-	4	-	-	-	4	-
$\frac{5}{8}L$ from F.P.	11.38	2	22.76	11.63	11.63	2	23.26
$\frac{7}{8}L$ "	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 = **Excess**
Mean standard sheer aft =

Mean actual sheer forward = **Excess.**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = $\frac{L}{L}$ } **NIL.**
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} (.75 - 0) = -.45$
If limited on account of midship superstructure. **No**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ☒

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 37.38 Summer freeboard = 9.79 Moulded draught (d) = 27.59 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.90 = 7" Addition for Winter North Atlantic Freeboard (if required) =	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 = $\frac{\Delta}{40 T}$ inches = 7 1/4	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{.771 + .68}{1.36} = 1.451$ Depth Correction 28.68 Deduction for superstructures Sheer correction45 Round of Beam correction09 Correction for Thickness of Deck amidships Other corrections, scantlings, etc. to correct to a summer moulded draught of 27 + 7 1/4 (27-7 1/8 actual) .33 Summer Freeboard = 117.25	83.21 88.78 27.3.52 + 28.47 117.25
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	14 1/4	Tropical Fresh Water Freeboard	9' - 9 1/2"
Fresh Water Line	7 1/4	Fresh Water	8' - 7 1/4"
Tropical Line	7	Tropical	9' - 2 1/4"
Winter Line below	7	Winter	10' - 2 1/2"
Winter North Atlantic Line	-	Winter North Atlantic	10' - 4 1/2"