

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

MAR 21 1938

Ship's Name "RAFAELA"	Official Number	Nationality and Port of Registry DUTCH. WILLEMSTAD	Gross Tonnage	Date of Build 1938	Port of Survey Glasgow.
Moulded Dimensions: Length 335.0 Breadth 56.0 Depth 14.79					Date of Survey while building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 5615 tons					Surveyor's Signature R. Dunsmuir
Coefficient of fineness for use with Tables					Particulars of Classification +100 A1 Carrying Petroleum in bulk. (Contemplated)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth 14.79	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 56.0
Stringer plate 0.4504	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 13.44$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = N/L$	If restricted by superstructures	Ship's Round of Beam = 14"
Depth for Freeboard (D) = 14.83		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	91.25		7'-3"		
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	39.5		7'-3"		
" overhang					
Trunk aft } <i>SEE SKETCH.</i>			6'-11 1/2"		
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure _____

 " " " R.Q.D. _____

Deduction for complete superstructure _____

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

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

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

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 = _____

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1			17.75		1		
1/4 L from A.P.		4			.20		4		
2/8 L "		2			0		2		
Amidships		4			0		4		
2/8 L from F.P.		2			0		2		
1/4 L "		4			4.50		4		
F.P.		1			53.50		1		
Total									

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 " = _____

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

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 = _____ Ft.

Summer freeboard = _____

Moulded draught (d) = _____

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____

Addition for Winter North Atlantic Freeboard (if required) = _____

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 6030 @ 13'-6" \text{ DRAFT}$

Tons per inch immersion at summer load water line

$T = 39.53$

Deduction = $\frac{\Delta}{40T}$ inches = _____

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction	+	-
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		

Summer Freeboard = _____

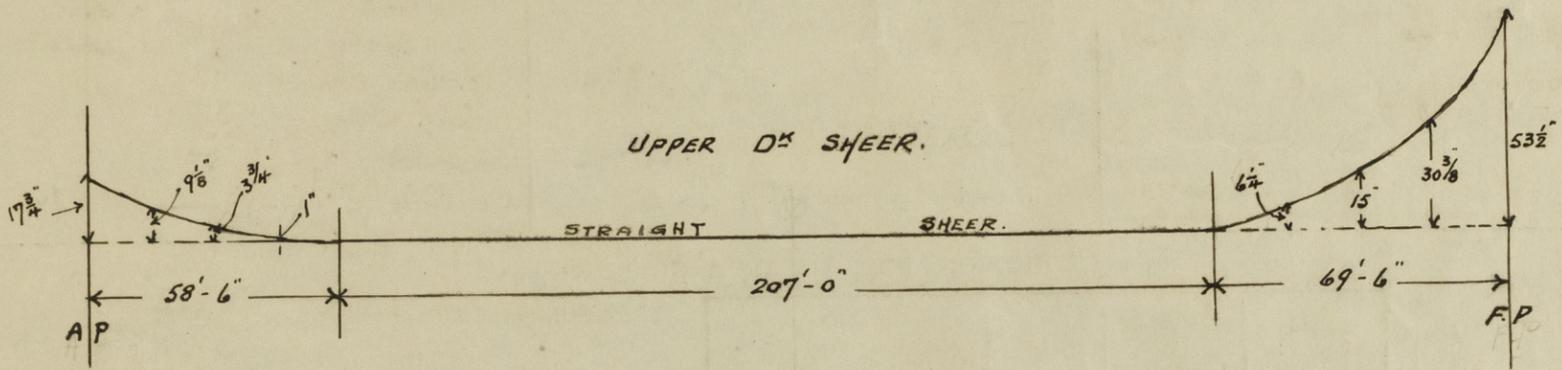
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

For computation see attached sheet

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.

19 x 44.92



This vessel has been built in accordance with the approved plans & in general conformity with the Society's Rules for the class contemplated.

Approved Plans of Midship Section, & Profile & Becks are forwarded for reference.

Preliminary freeboard assigned as per Secretary's letter M. 13.7.39. Freeboard request attached.

Trade of ship International trade.

Names of sister ships _____

Builder's name and yard number Blythwood Shipbuilding Company Ltd Nº 50

Owners Anglo-Saxon Petroleum Co. Ltd.

Est. Fee £ 14 . 0 . 0



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Rafaela.