

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 0.45 0.04	(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"			Standard Height of Superstructure
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Fore enclosed	39.5		7'-3"			Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang						Interpolation for bridge less than .2L (if required)
Trunk aft SEE SKETCH.			6'-11 1/2"			Deduction =
" forward						
Tonnage opening aft						
" " forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P.		1		17.75		1		Mean actual sheer aft =
1/4 L from A.P.		4		20		4		Mean standard sheer aft =
2/4 L "		2		0		2		Mean actual sheer forward =
Amidships		4		0		4		Mean standard sheer forward =
2/4 L from F.P.		2		0		2		Length of enclosed superstructure forward of amidships =
1/4 L "		4		4.50		4		" " aft of " =
F.P.		1		53.50		1		
Total								

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 $1\frac{1}{2}$ ins. per 100 ft.

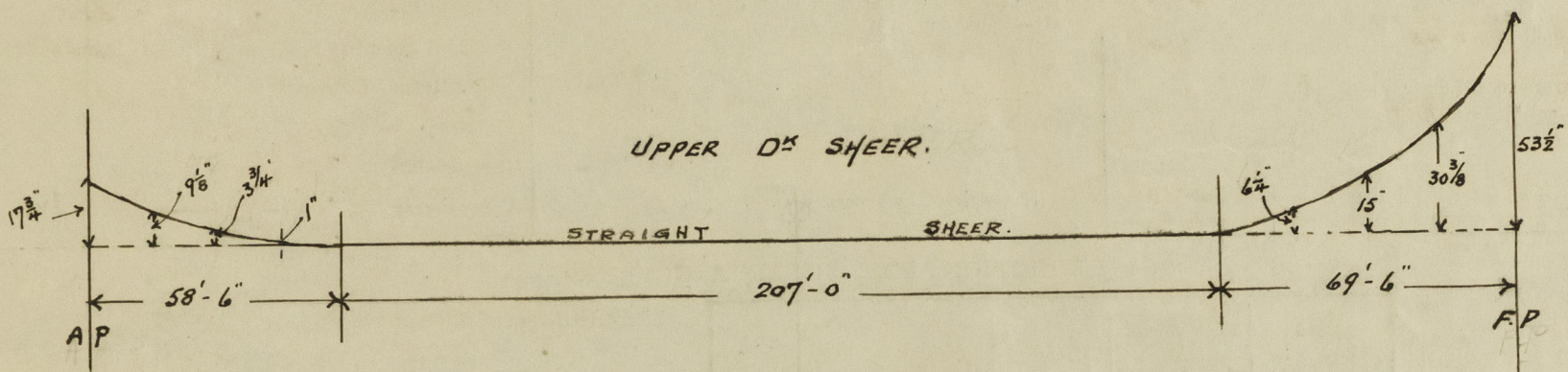
Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 6030$ at 13'-6" DRAFT Tons per inch immersion at summer load water line $T = 39.53$ Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient
Depth to Freeboard Deck = Ft.		Depth Correction
Summer freeboard =		Deduction for superstructures
Moulded draught (d) =		Sheer correction
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =		Round of Beam correction
Addition for Winter North Atlantic Freeboard (if required) =		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	"

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



$\frac{4169.5}{17.51}$

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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Lloyd's Register
Foundation

Rafaela