

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. MOB 853.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. **34061**
(For London Office only.)**15 NOV 1948**

Ship's Name "FITZROY."	Official Number 11827	Nationality and Port of Registry BRITISH. LONDON.	Gross Tonnage 1931	Date of Build 9 Mar	Port of Survey MIDDLESBROUGH.
Moulded Dimensions: Length 185.2 Breadth 32.5 Depth 13.54					Date of Survey DURING ALTERATIONS OCTOBER, NOVEMBER 1948.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1350. tons					Surveyor's Signature <i>John G. Lumley</i>
Coefficient of fineness for use with Tables .682					Particulars of Classification #100A.1.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 13.54	(a) Where D is greater than Table depth (D - Table depth) R = (13.59 - 12.34) 1.424 = + 1.78"	Moulded Breadth (B) 32.5
Stringer plate54	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1.25	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{32.5 \times 12}{50} = \mathbf{7.80}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 8.25
Depth for Freeboard (D) = 13.59		Difference = + .45
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.45}{4} \times .3138 = \mathbf{-.04}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure 6.0'
" overhang						" " R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure 24.52"
" overhang						Percentage covered $\frac{S}{L} = \mathbf{69.11}$
Bridge enclosed COMBINED	108.67	108.67	7.0'	✓	108.67	" " $\frac{S_i}{L} = \mathbf{68.62}$
" overhang aft	NONE					" " $\frac{E}{L} =$
" overhang forward	1.83	.91			.91	Percentage from Table, Line A & B 60.65
Fore enclosed OPEN	17.50	17.50	7.0'	✓	17.50	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = 24.52 × .6065 = - 14.87"
" " forward						
Total	128.00	127.08			127.08	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	28.52	1	28.52	33.0	44.50	1	44.50			Mean actual sheer aft = Excess
1/2 L from A.P.	12.69	4	50.76	12.5	19.805	4	79.22			Mean standard sheer aft = Excess = 12"
1/2 L "	3.14	2	6.28	2.0	4.995	2	9.79			Mean actual sheer forward = Excess
Amidships	-	4	-	.5	-	4	-			Mean standard sheer forward = Excess
1/2 L from F.P.	6.27	2	12.54	4.0	3.50	2	7.00			Length of enclosed superstructure forward of amidships = .0867
1/2 L "	25.38	4	101.52	26.0	25.50	4	102.00			" " aft of " = .50
F.P.	57.04	1	57.04	69.0	68.50	1	68.50			
Total			256.66				311.01			

Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{54.35 - 34.55}{18} = \mathbf{- 1.22}$

If limited on account of midship superstructure. $\frac{.1867}{.20} \times 1.22 = \mathbf{- 1.14}$

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 = **13.59**

Summer freeboard = **.54**

Moulded draught (d) = **13.05**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **3.26 = 3 1/4"**

Addition for Winter North Atlantic Freeboard (if required) = **5 1/4"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line **1590**

Tons per inch immersion at summer load water line **11.6**

Deduction = $\frac{\Delta}{40 T}$ inches = **3.46**

= **3 1/2"**

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.

+	-
1.78	
	14.87
	1.14
	.04
1.78	16.05

Summer Freeboard = **6.39**

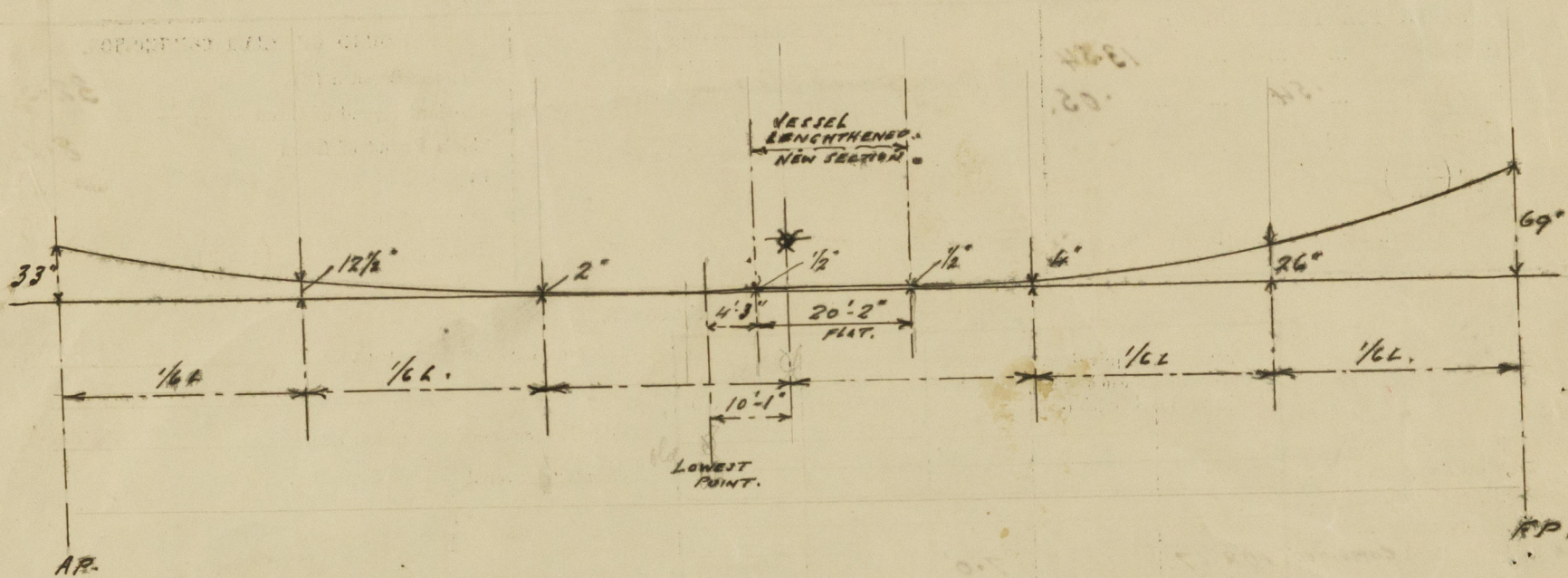
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	6 3/4"
Fresh Water Line	3 1/2"
Tropical Line	3 1/4"
Winter Line below	3 1/4"
Winter North Atlantic Line	5 1/4"

Tropical Fresh Water Freeboard	0' - 6 1/2"
Fresh Water	0' - 0 1/4"
Tropical	0' - 3"
Winter	0' - 3 1/4"
Winter North Atlantic	0' - 11 3/4"

Fitzroy

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 GENERAL CARGO.

Names of sister ships _____

Builder's name and yard number H. ROBB LTD. LEITH. N°189.

Owners FALKLAND ISLANDS CO LTD.

Fee £ 14 : 0 : 0 as per list attached



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