

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

26d 1821

Ship's Name MARGARET ROSE.	Official Number 134736	Nationality and Port of Registry British London	Gross Tonnage 342 348.27	Date of Build 1912-7.	Port of Survey Glasgow Dock near Lancaster.
Moulded Dimensions: Length 140.0 Breadth 24.0 Depth 13.83					Date of Survey 18 July 1937.
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables assumed under .68					Particulars of Classification + 100 AI SIM. TRAWLER.

Depth for Freeboard (D). Moulded depth 13.8 Stringer plate 5/16" R.O.D. Sheathing on exposed deck 3" $T \left(\frac{L-S}{L} \right) = .25 \times .2571 = .06$ Depth for Freeboard (D) = 13.92	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (13.92 - 9.33) 1.077 = + 4.94 (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 4.59 If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction. Moulded Breadth (B) 24.0 Standard Round of Beam = $\frac{B \times 12}{50} = 5.76$ Ship's Round of Beam 7" = 7.00 Difference = 1.24 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{1.24^2}{4} \times .2893 = -.09$
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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 ...	81.0	81.00	6.9	6.9/3.267	17.11
" overhang ...	✓				
Bridge enclosed ...	✓				
" overhang aft ...	✓				
" overhang forward ...	✓				
Fore enclosed ...	open 23.0	18.50	5.22	5.22/6	16.09
" overhang ...	✓				
Trunk aft ...	✓				
" forward ...	✓				
Tonnage opening aft ...	✓				
" forward ...	✓				
Total ...	104.0	99.50			33.20

Standard Height of Superstructure	6.0
" " R.Q.D.	3.267
Deduction for complete superstructure	20.0
Percentage covered $\frac{S}{L} =$	74.29
" " $\frac{S_1}{L} =$	71.07
" " $\frac{E}{L} =$	23.71
Percentage from Table, Line A.	11.85
(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 =	20.0 x .1185 = -2.37

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	24.00	1		24.00	4'-6"	54.00	1		54.00
1/4 L from A.P. ...	10.68	4		42.72	2'-2"	26.00	4		104.00
1/2 L " ...	2.64	2		5.28	8"	8.00	2		16.00
Amidships ...	-	4		-	0	-	4		-
3/4 L from F.P. ...	5.28	2		10.56	2"	2.00	2		4.00
3/4 L " ...	21.36	4		85.44	2'-0"	24.00	4		96.00
F.P. ...	48.00	1		48.00	4'-7"	55.00	1		55.00
Total ...				216.00					329.00

Mean actual sheer aft = **Even**
 Mean standard sheer aft = **Even**

Mean actual sheer forward = **Even**
 Mean standard sheer forward = **Even**

Length of enclosed superstructure forward of amidships = **100**
 " " aft of " = **100**
 Nil at standard height of quarter-deck

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{113}{18} (.75 - .3715) = -2.38$
 If limited on account of midship superstructure. **7.2 Nil.** **3785**
 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 **Raised quarter** Deck = **14.61**
 Summer freeboard = **2.08**
 Moulded draught (d) = **12.53**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **3.13 = 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

$\Delta =$

Tons per inch immersion at summer load water line

$T =$

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

1/4 = 3 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **Nil.**

Depth Correction ... **4.94**

Deduction for superstructures ... **2.37**

Sheer correction ... **.09**

Round of Beam correction ... **2.29**

Correction for Thickness of Deck amidships ... **6.00**

Other corrections, scantlings, etc. **height of raised quarter-deck.**

13.22

14.20

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Margaret Rose.

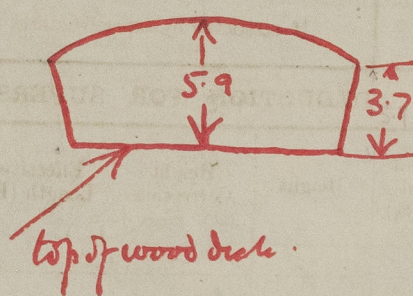
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Mean height of whole bulk.

$$\begin{array}{l} \text{Aft end } 3.7 + (\frac{2}{3} \times 2.2) = 5.17 \\ \text{Fwd } = 4.90 \end{array} \quad \left. \vphantom{\begin{array}{l} \text{Aft end } 3.7 + (\frac{2}{3} \times 2.2) = 5.17 \\ \text{Fwd } = 4.90 \end{array}} \right\} \text{Mean} = 5.03$$

Mean height = 5.03

$$\begin{array}{r} 5.03 \\ \times 19 \\ \hline 5.22 \end{array} = \text{Virtual height} \\ \text{above mean wood deck.}$$



Trade of ship

Names of sister ships

Builder's name and yard number Book Melton & Semmell Ltd. Beverley No 244-5 V8.

Owners

Boston Deep Sea Fishing & Ice Co Ltd.

Fee £

6 : 0 : 0

Exp.

10 : 0



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