

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **"SARKOY."** Official Number **1941** Nationality and Port of Registry **Newcastle** Gross Tonnage **1436 at 85% of 1725** Date of Build **1941**

Port of Survey **Watten-on-Lyne**
Date of Survey **During construction**
Surveyor's Signature **E. A. Dean**
Particulars of Classification **+100A.1. with husband - Ferry Service - Batum, Almandutka.**

Moulded Dimensions: Length **180'0"** Breadth **40'0"** Depth **18'0" (actual) 12'9" (virtual)**
Moulded displacement at moulded draught = 85 per cent. of moulded depth **1725** tons
Coefficient of fineness for use with Tables **655.68 (644 actual)**

Depth for Freeboard (D). Moulded depth **18'0"** Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = $(12.75 - 12.00) \times 1.385 = +1.04$ Round of Beam correction. Moulded Breadth (B) **40'0"** Standard Round of Beam = $\frac{B \times 12}{50} = 9.6$ Ship's Round of Beam = **3** Difference **6.6** Restricted to **-** Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) = \frac{6.6}{4} \times 0.222 = +.04$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	176.00	176.00	2.25	2.273/6	66.68	Standard Height of Superstructure 6.00
„ overhang ...			+0.23			„ „ R.Q.D. ✓
R.C.D. enclosed ...			8 ft			Deduction for complete superstructure 24
„ overhang ...						Percentage covered $\frac{S}{L} = 97.78$
Bridge enclosed ...						„ „ $\frac{S_1}{L} = 97.78$
„ overhang aft ...						„ „ $\frac{E}{L} = 37.04$
„ overhang forward ...						Percentage from Table, Line A. ✓
„ ele enclosed ...						(corrected for absence of forecastle (if required))
„ overhang ...						Percentage from Table, Line B. 24.98
Trunk aft ...						(corrected for absence of forecastle (if required)) 19.98
„ forward ...						Interpolation for bridge less than 2L (if required) ✓
Connage opening aft ...						Deduction = $24 \times 19.98 = -4.80$
„ „ forward ...						
Total ...	176.00	176.00			66.68	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
P. ...	28.00	1		28.00	3"	3.00	1		3.00	Mean actual sheer aft = Mean standard sheer aft = } Deficient.
from A.P. ...	12.46	4		49.84	1/4"	.25	4		1.00	
" ...	3.08	2		6.16	hid	-	2		-	
amidships ...	-	4		-	hid	-	4		-	Length of enclosed superstructure forward of amidships = L
from F.P. ...	6.16	2		12.32	1/16"	.06	2		.12	
" ...	24.92	4		99.68	13/16"	.81	4		3.24	
P. ...	56.00	1		56.00	3"	3.00	1		3.00	aft of " = } Deficient Sheer.
Total ...				252.00					10.36	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{241.64}{18} (.75 - .4889) = +3.51$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft. ✓

Deduction for Tropical Freeboard. **19.80**
Addition for Winter and Winter North Atlantic Freeboard. **19.80**

Depth to Freeboard Deck = **15.02**
Summer freeboard = **5.92**
Moulded draught (d) = **9.10**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = $2.28 = 2\frac{1}{4}$
Addition for Winter North Atlantic Freeboard (if required) = **✓**

Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 1131$ Tons per inch immersion at summer load water line $T = 13.77$ Deduction = $\frac{\Delta}{40T}$ inches = $2.05 = 2$

TABULAR FREEBOARD **19.80**
Correction for coefficient **Nil.**
Depth Correction ... **1.04**
Deduction for superstructures ... **4.80**
Sheer correction ... **3.51**
Round of Beam correction ... **.04**
Correction for difference between actual & virtual depth of Deck amidships **27.28**
Other corrections, scantlings, etc. **24.13**
56.00
Summer Freeboard = **71.00**

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

Tropical Fresh Water Line above Centre of Disc ...	✓	Tropical Fresh Water Freeboard ...	5-11
Fresh Water Line ...	2	Fresh Water ...	5-9
Tropical Line ...	Not assigned	Tropical ...	6-1 1/4
Winter Line below ...	2 1/4	Winter ...	
Winter North Atlantic Line ...	Not assigned	Winter North Atlantic ...	

such alterations have been made,
the date.

Names of sister ships. "Eceabat"; "Erdik"; "Gemlik"; "Kilye"; "Lapseki"; "MUDANYA"; "MUREFTE".

Builder's name and yard number Swan Hunter & Wigham Richardson Ltd. 1676.

OWNERS. His Majesty represented by The Ministry of Shipping.

Fee \$ 8-0-0