

Rpt. C.11 (Comp.).
Eceabat 36163
Erdek 36343
Kilye 36375
Gemlik 36358
Mudanya 36431

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 36432
(For London Office only).

Ship's Name "LAPSEKI"	Official Number 165803	Nationality and Port of Registry Newcastle	Gross Tonnage 1940	Date of Build 1940	Port of Survey Walker-on-Tyne
Moulded Dimensions: Length 180'-0" Breadth 40'-0" Depth 15'-0" <i>Actual 12'-9" virtual.</i>				Date of Survey During Construction.	
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1722 tons				Surveyor's Signature E.H. Dean	
Coefficient of fineness for use with Tables 68.655 (644 actual) 1436 at 85% of 12.75'				Particulars of Classification +100 A.I. with Subsided - Ferry Service - Batum Alexandretta.	

Depth for Freeboard (D). 12.75'	Depth correction.	Round of Beam correction.
Moulded depth ... 15'-0"	(a) Where D is greater than Table depth (D - Table depth) R = (12.75 - 12.00) x 1.385 = +1.04"	Moulded Breadth (B) 40'-0"
Stringer plate ... 0.03"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 75	Standard Round of Beam = $\frac{B \times 12}{50} =$ 9.60"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 3.00"
Depth for Freeboard (D) = 12.75'		Difference Deficiency 6.60"
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{6.60}{4} \times 0.222 = +0.4"$

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					
" overhang					
Bridge enclosed ...	176.00'	176.00'	1.25'	1.273/6.00	66.68
" overhang aft			+0.43		
" overhang forward					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	176.00'	176.00'			66.68

Standard Height of Superstructure 6.00'
" " R.Q.D. ✓
Deduction for complete superstructure 24.00"
Percentage covered $\frac{S}{L} =$ 97.78
" " $\frac{S_1}{L} =$ 97.78
" " $\frac{E}{L} =$ 37.04
Percentage from Table, Line A. ✓
(corrected for absence of forecastle (if required)) ✓
Percentage from Table, Line B. 24.98
(corrected for absence of forecastle (if required)) 19.98
Interpolation for bridge less than 2L (if required) ✓
Deduction = 24.00 x 19.98 = -4.80"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	18.00	1		18.00	3"	3.00	1		3.00
$\frac{1}{2}$ L from A.P. ...	12.46	4		49.84	1/4"	.25	4		1.00
$\frac{3}{8}$ L " ...	3.08	2		6.16	hil	-	2		-
Amidships ...	-	4		-	hil	-	4		-
$\frac{3}{8}$ L from F.P. ...	6.16	2		12.32	1/16"	.06	2		.12
$\frac{1}{2}$ L " ...	14.92	4		99.68	13/16"	.81	4		3.24
F.P. ...	56.00	1		56.00	3"	3.00	1		3.00
Total ...				252.00					10.36

Mean actual sheer aft = **Deficient**
Mean standard sheer aft

Mean actual sheer forward = **Deficient**
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Deficient**
" " aft of " = **Deficient**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{241.64(.75 - .4889)}{18} = +3.51"$
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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	19.80
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient 1.00	19.80
Depth to Freeboard Deck = 15.02 Ft.	$\Delta =$ 1131	Depth Correction ... 1.04	
Summer freeboard = 5.92	Tons per inch immersion at summer load water line	Deduction for superstructures ... 4.80	
Moulded draught (d) = 9.10	T = 13.77	Sheer correction ... 3.51	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.28 = 2 1/4"	Deduction = $\frac{\Delta}{40T}$ inches = 2.05	Round of Beam correction04	
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 2"	Correction for thickness of Deck amidships 27.48	
		Other corrections, scantlings, etc. 24.13	
		5 a 56.00 moulded draught 4.80	+51.20
		Summer Freeboard = 71.00	

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

Tropical Fresh Water Line above Centre of Disc ... 2"	Tropical Fresh Water Freeboard ... 5'-11"
Fresh Water Line " " ... 2"	Fresh Water " " ... 5'-9"
Tropical Line " " ... 2 1/4"	Tropical " " ... 6'-1 1/4"
Winter Line below " " ... 2 1/4"	Winter " " ... 6'-1 1/4"
Winter North Atlantic Line " " ... 2 1/4"	Winter North Atlantic " " ... 6'-1 1/4"

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