

For Scantling purposes only.

pt. C.11 (Comp.).

Index. No. _____
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name T.S. Kourma	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 211 Breadth 35 Depth 13.5	Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				Date of Survey 9.7.42
Coefficient of fineness for use with Tables .764 (estimated)				Surveyor's Signature _____	
				Particulars of Classification 100% with p.s.	

Depth for Freeboard (D). Moulded depth 13.50 Stringer plate3403 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ - Depth for Freeboard (D) = 13.53	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth - D) R = $(14.07 - 13.53) \times 1.623 = .88$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference assumed standard Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$
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DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Roop enclosed ...				
.. overhang ...				
R.Q.D. enclosed ...				
.. overhang ...				
Bridge enclosed ...				
.. overhang aft ...				
.. overhang forward ...				
.. overhang ...				
Trunk aft ...				
.. forward ...				
Tonnage opening aft ...				
.. forward ...				
Total ...				

C.S.

Standard Height of Superstructure	6.0
.. .. R.Q.D.	✓
Deduction for complete superstructure	27.10
Percentage covered $\frac{S}{L} =$	100.2
.. .. $\frac{S_1}{L} =$	
.. .. $\frac{E}{L} =$	
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. 100.2 (corrected for absence of forecastle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction =	-27.10

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
.. ..		1					1		
from A.P. ...		4					4		
.. ..		2					2		
amidships ...		4					4		
from F.P. ...		2					2		
.. ..		4					4		
.. ..		1					1		
Total ...									

Standard

Mean actual sheer aft =	
Mean standard sheer aft =	
Mean actual sheer forward =	
Mean standard sheer forward =	
Length of enclosed superstructure forward of amidships =	
.. .. aft of .. =	

*LR standard height amidships = 7.50
L.L. = 6.00
Difference = 1.50*

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$ **-1.50**

If limited on account of midship superstructure. 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 = 13.53 Summer freeboard = .17 Moulded draught (d) = 13.36 Addition for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.34 = 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 = $\frac{\Delta}{40T}$ inches = 3 1/4	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.764 + .68}{1.36} = \frac{1.444}{1.36}$ <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>.. ..</td><td>.88</td></tr> <tr><td>Deduction for superstructures</td><td>.. ..</td><td>27.10</td></tr> <tr><td>Sheer correction</td><td>.. ..</td><td>1.50</td></tr> <tr><td>Round of Beam correction</td><td>.. ..</td><td>-</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>.. ..</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>.. ..</td><td>-</td></tr> <tr><td></td><td>- 29.48</td><td>- 29.48</td></tr> </table> Summer Freeboard = -29.5		+	-	Depth Correction88	Deduction for superstructures	27.10	Sheer correction	1.50	Round of Beam correction	-	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-		- 29.48	- 29.48
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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 " "

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