

URGENT

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER.~~)

MAY 26 1938

Ship's Name S.S. KALLIOPJ. S.	Official Number 800	Nationality and Port of Registry Greek Piraeus	Gross Tonnage 5152	Date of Build 1918.5	Port of Survey Rotterdam
Moulded Dimensions: Length 399.5 Breadth 52.0 Depth 28.5 31.0					Date of Survey 24.5.1938
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12096 tons					Surveyor's Signature Q. V. van
Coefficient of fineness for use with Tables 773					Particulars of Classification +100A1.6.37 S.S. am n° 3.4.30 S.S. Gen n° 1.34

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 31.0	(a) Where D is greater than Table depth (D - Table depth) R = (31.04 - 26.63) 3.00 = 13.23" ✓	Moulded Breadth (B) 52.00
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 4.41 ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{52 \times 12}{50} = 12.48$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 13" ✓
Depth for Freeboard (D) = 31.04		Difference Excess .52 ✓
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.52^2}{4} \times \left(1 - \frac{49.77}{52} \right) = .06$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	49.25 ✓	49.25	8.0 ✓	✓	49.25	Standard Height of Superstructure 7.5 ✓
" overhang ...	<i>none</i>					" " R.Q.D. ✓
R.Q.D. enclosed ...	✓					Deduction for complete superstructure 41.96
" overhang ...						Percentage covered $\frac{S}{L} = \frac{50.23}{52} = 50.23$
Bridge enclosed ...	112.66 ✓	112.66	8.0 ✓	✓	112.66	" " $\frac{S_1}{L} = \frac{50.23}{52} = 50.23$
" overhang aft ...	<i>none</i>					" " $\frac{E}{L} = \frac{50.23}{52} = 50.23$
" overhang forward ...	<i>none</i>					Percentage from Table, Line A. ✓
F'cle enclosed ...	38.75 ✓	38.75	8.0 ✓	✓	38.75	(corrected for absence of forecastle (if required))
" overhang ...	<i>none</i>					Percentage from Table, Line B. 36.23 ✓
Trunk aft ...	✓					(corrected for absence of forecastle (if required))
" forward ...	✓					Interpolation for bridge less than 2L (if required) .282L ✓
Tonnage opening aft ...	✓					Deduction = 41.96 x 36.23 = 15.20 ✓
" " forward	✓					
Total ...	200.66	200.66 ✓			200.66	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	49.95	1		49.95	60	60	1		60.00	Mean actual sheer aft = Excess
1/4 L from A.P. ...	22.22	4		88.88	26.86	26.86	4		107.44	Mean actual sheer forward = Excess
1/2 L " ...	5.50	2		11.00	6.71	6.71	2		13.42	Mean standard sheer forward
Amidships ...	✓	4		✓	✓	✓	4		✓	Length of enclosed superstructure forward of amidships = 154 ✓
3/4 L from F.P. ...	10.99	2		21.98	13.23	13.23	2		26.46	" " aft of " = 125 ✓
1/4 L " ...	44.45	4		177.80	52.93	52.93	4		211.72	
F.P. ...	99.90	1		99.90	120	120.0	1		120.00	
Total ...				449.51					539.04	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{89.53}{18} \left(.75 - \frac{.2511}{.4989} \right) = 2.48$ ✓

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 = 31.04 ✓ Summer freeboard = 5.98 ✓ Moulded draught (d) = 25.06 ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = $\frac{25.06}{4} = 6.26 = 6 \frac{1}{4}$ ✓ Addition for Winter North Atlantic Freeboard (if required) = ✓	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 11530$ Tons per inch immersion at summer load water line $T = 41.8$ Deduction = $\frac{\Delta}{40T}$ inches = $\frac{11530}{40 \times 41.8} = 6.90$ = 7"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{773 + .68}{1.36} = 1.453$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>13.23</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>15.20</td> </tr> <tr> <td>Sheer correction ...</td> <td>-</td> <td>2.48</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>.06</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>Total</td> <td>13.23</td> <td>17.74</td> </tr> </table> Summer Freeboard = 71.71 ✓		+	-	Depth Correction ...	13.23	-	Deduction for superstructures ...	-	15.20	Sheer correction ...	-	2.48	Round of Beam correction ...	-	.06	Correction for Thickness of Deck amidships ...	-	-	Other corrections, scantlings, etc. ...	-	-	Total	13.23	17.74
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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 ...	13 1/4 = 33 1/4"	Tropical Fresh Water Freeboard ...	5' - 11 3/4"	1822 m/m
Fresh Water Line " " ...	11 1/4 = 29 1/4"	Fresh Water " " ...	5' - 10 1/2"	1485 "
Tropical Line " " ...	6 1/4 = 15 1/4"	Tropical " " ...	5' - 4 3/4"	1644 "
Winter Line below " " ...	6 1/4 = 15 1/4"	Winter " " ...	5' - 5 1/2"	1663 "
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	6' - 6"	1781 "

S.S. *Stalliohi. S.*

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.

Note

The vessel is due to sail on Saturday next, the 20th instant and in connection therewith the Owners Representative has requested to be favoured with your freeboard assignment at your earliest convenience. -

In the circumstances we would be pleased to receive the International Load Line certificate by the same mail for issue when the freeboard has been marked on and verified and the conditions of assignment have been complied with. -

Original Rpt 11th sent for our guidance returned herewith. -

Trade of ship *Ocean going.*

Names of sister ships *✓*

Builder's name and yard number *J. L. Thompson & Sons Ltd.*

Owners *Mess J. Starrow & Co Ltd.*

Fee *192.00*



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Lloyd's Register
Foundation

Rpt. C.11.

Ship's Name

Official Number

Nationality

Disposition

Poop Bulkhead

Raised Quarter

Bridge, After

Bridge, Forward

Forecastle Bulkhead

Trunk, Aft

Trunk, Forward

Exposed Machinery

board or R

Exposed Machinery

structure D

Machinery Cas

tures not fit

Appliances

Deckhouses on

Poop Bulkhead

Raised Quarter

Bridge, After

Bridge, Forward

Forecastle Bulkhead

Exposed Machinery

board or R

Exposed Machinery

structure D

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tures not fit

Appliances

Deckhouses on

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