

W RECON SECTION
Newcastle-on-Tyne 90600
Greek Copy
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No.

(For London Office only.)

21812

16 OCT 1933

Port of Survey *Newcastle-upon-Tyne*Date of Survey *12 Oct 1933*Name of Surveyor *W. J. H. H. H.*Particulars of Classification *+100 A.1.*

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having *Poop Bridge + Forecastle.*

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
GEORGIOS KYRIAKIDES	Greek Andros	178	4201	1911-9
Moulded Dimensions: Length <i>363.0</i> Breadth <i>50.79</i> Depth <i>27.82</i>				
Moulded displacement at moulded draught = 85 per cent. of moulded depth <i>10112 10125</i> tons				
Coefficient of fineness for use with Tables <i>816 (815) 816</i>				

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	27.71	(a) Where D is greater than Table depth (D - Table depth) R = (27.75 - 24.20) 2.792 = +9.91"		Moulded Breadth (B)	50.79'
Stringer plate	.04	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	12.19"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$				Ship's Round of Beam	12"
Depth for Freeboard (D) =	27.75	If restricted by superstructures		Difference	.19"
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.19}{4} \times .1952 = +.01$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	31.33	31.33	7.5	-	31.33
" overhang	.25	.12		-	.12
R.Q.D. enclosed					
" overhang					
Bridge enclosed	225.33	225.33	7.5	-	225.33
" overhang aft	.25	.19		-	.19
" overhang forward	.25	.12		-	.12
Fore enclosed equivalent	35.01	35.01	7.5	-	35.01
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	292.42	292.10			292.10

Standard Height of Superstructure	7.13
" " R.Q.D.	
Deduction for complete superstructure	39.53
Percentage covered $\frac{S}{L} =$	80.57%
" $\frac{S_1}{L} =$	80.48%
" $\frac{E}{L} =$	80.48%
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	75.90%
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = $39.53 \times .759 =$	-30.00

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	46.30	1		46.30	54.0	54.00	1		54.00
$\frac{1}{2}$ L from A.P.	20.60	4		82.40	23.3	23.30	4		93.20
$\frac{2}{3}$ L	5.09	2		10.18	5.81	5.81	2		11.62
Amidships		4					4		
$\frac{3}{4}$ L from F.P.	10.18	2		20.36	10.74	10.74	2		21.48
$\frac{1}{2}$ L	41.20	4		164.80	43.06	43.06	4		172.24
F.P.	92.60	1		92.60	102.00	102.00	1		102.00
Total				416.64					454.54

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{37.90}{18} \left(.75 - \frac{402.8}{347.2} \right) = -.73$$

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.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck	=	27.75
Summer freeboard	=	3.79
Moulded draught (d)	=	23.96

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6"

Addition for Winter North Atlantic Freeboard (if required)

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 10397$
Tons per inch immersion at summer load water line

T = 38.5

Deduction = $\frac{\Delta}{40 T}$ inches = 6.75

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction	9.91	-
Deduction for superstructures	-	30.00
Sheer correction	-	.73
Round of Beam correction	.01	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	9.92	30.73

Summer Freeboard = 45.47

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

Tropical Fresh Water Line above Centre of Disc	1.275	323	Tropical Fresh Water Freeboard	2.275	852
Fresh Water Line	1.375	171	Fresh Water	3.375	1004
Tropical Line	6.125	152	Tropical	3.375	1004
Winter Line below	6.125	152	Winter	4.375	1308
Winter North Atlantic Line			Winter North Atlantic		

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Georg. con. Kyriakides.

Particulars of Scuppers and Sanitary Discharge Pipes —

none discharge below facibound deth.

Side Scuttles in Forecastle (Crew space) have hinges
Still deadlights. 1 deadlight missing & several glass

7 cbs. - 3 tier rails 3' 3" high slantwise about 4' 0" apart
 Bldg. - " " 3' 0" " " 4' 0" apart also post between 3' 0" high
 Pook 3 " " 3' 0" " " 4' 0" apart

Satisfactory provision made for rigging Lifeline
~~none.~~

Particulars of fiddley, funnel and ventilator coamings :—

Fidley & funnel & vents in good condition. ~~permanently attached~~
 Fidley openings covered by steel flap covers. ~~(Some not attached)~~
 Engine shy light of steel strongly constructed. ~~(Some glasses broken)~~

None

None

[illegible]

all air pipes level with deck
with screw caps.

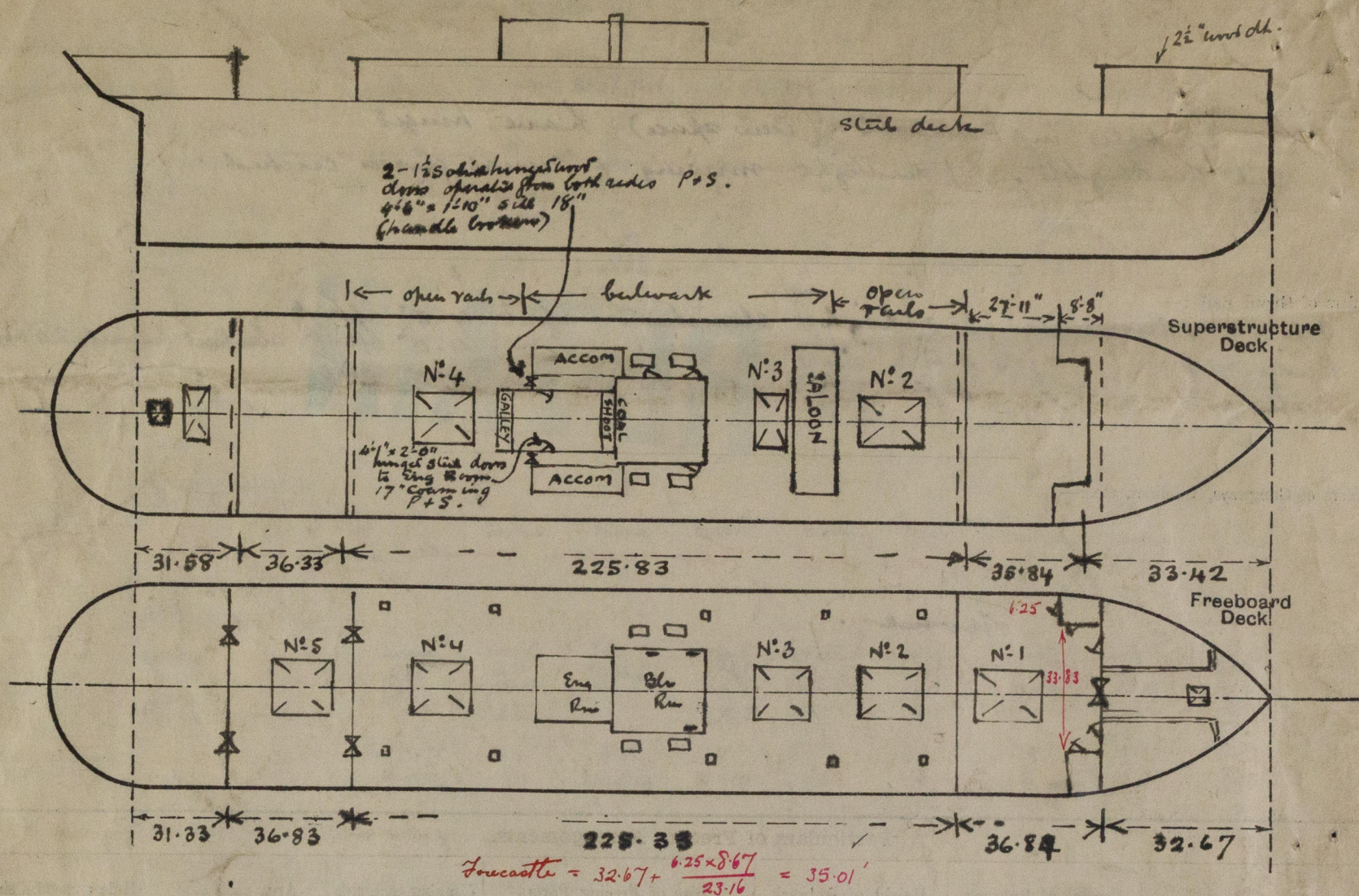
None.
SMALL MATCHES

[illegible]

	Back Shells	Back Plates	Front Plates	Front Shells	Other Parts
Particulars of Closing Appliances (state if capable of being manipulated from both sides).					(Some Strong Backs)

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	Portable steel plates secured by 3 strong back bolts not passing thro' b'd. <i>(Same strong back bolts securing)</i>
Raised Quarter Deck Bulkhead	✓ Portable steel plates secured by 3 strong back bolts not passing thro' b'd.
Bridge After Bulkhead	No openings
Bridge Forward Bulkhead	✓ Hinged steel doors operated from both sides. <i>One open, one closed. The</i> hinged steel door (on balance) to either opening capable of being operated from both sides. The door is on lower but is not fitted in position
Forecastle Bulkhead	Hinges steel doors operated from both sides
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	2 steel sliding doors to fidley operated by handle inside fidley only.
Exposed Machinery Casings on Superstructure Decks	1 " door to delivery boiler compartment + fidley with no hand grips either side
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

*None examined afloat
Crew berthed forward + amidships*

Builder's name and yard number

J. Readhead & Sons. No 421

Names of sister ships

Owners

N. S. Kyriakides

Fee £ 12 : 15 : 0

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