

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

pt. C.11.

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having Roop Bridge Freecastle

(Type of Superstructures.)

Ship's Name "KAFIRISTAN" Nationality and Port of Registry British Newcastle Official Number 148088 Gross Tonnage 5193 Date of Build 1924-8

Moulded Dimensions: Length 389.5 Breadth 53.166 Depth 31.5

Moulded displacement at moulded draught = 85 per cent. of moulded depth

Coefficient of fineness for use with Tables .795

Port of Survey \_\_\_\_\_

Date of Survey 8/8/32

Name of Surveyor \_\_\_\_\_

Particulars of Classification +100A1.

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>31.5</u>	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate ... .. <u>.03</u>	<u>+16.69</u>	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Ship's Round of Beam =
Depth for Freeboard (D) = <u>31.53</u>	If restricted by superstructures	Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>- .03</u>

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
*Poop enclosed ... ..					
" overhang ... ..					
R.Q.D. enclosed ... ..					
" overhang ... ..					
Bridge enclosed ... ..					
" overhang aft ... ..					
" overhang forward ... ..					
F'cle enclosed ... ..					
" overhang ... ..					
Trunk aft ... ..					
" forward ... ..					
Tonnage opening aft ... ..					
" " forward ... ..					
Total ... ..	<u>183.96</u>	<u>181.20</u>			<u>181.20</u>

Standard Height of Superstructure \_\_\_\_\_

" " R.Q.D. \_\_\_\_\_

Deduction for complete superstructure 41.30

Percentage covered  $\frac{S}{L} =$

" "  $\frac{S_1}{L} =$

" "  $\frac{E}{L} =$  46.52

Percentage from Table, Line A.  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. Timber 67.07  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 41.3 + 67.07 = 27.70

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..		1					1		
$\frac{1}{4}$ L from A.P. ... ..		4					4		
$\frac{1}{2}$ L " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{3}{4}$ L from F.P. ... ..		2					2		
$\frac{1}{4}$ L " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

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 " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  -3.09

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)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = <u>31.53</u>	$\Delta =$ <u>12492</u>	Depth Correction ... .. <u>16.69</u>
Summer freeboard = <u>5.00</u>	Tons per inch immersion at summer load water line	Deduction for superstructures ... .. <u>27.70</u>
Moulded draught (d) = <u>26.53</u>	T = <u>40.33</u>	Sheer correction ... .. <u>3.09</u>
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.63 = 6<math>\frac{3}{4}</math></u>	Deduction = $\frac{\Delta}{40T}$ inches = <u>7.74</u>	Round of Beam correction ... .. <u>.63</u>
Addition for Winter North Atlantic Freeboard (if required) = <u>8.84</u> <u>8<math>\frac{3}{4}</math></u>	= <u>7<math>\frac{3}{4}</math></u>	Correction for Thickness of Deck amidships ... ..
		Other corrections, scantlings, etc. ... ..
		Summer Freeboard = <u>59.89</u>

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Summer Freeboard amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Line	Freeboard
Tropical Fresh Water Line above Centre of Disc	<u>2-3<math>\frac{3}{4}</math></u>
" Fresh Water Line	<u>1-9</u>
" Tropical Line	<u>1-8</u>
" Winter Line	<u>4<math>\frac{1}{2}</math></u>
" Winter North Atlantic Line	<u>7</u>

Summer above 1-1 $\frac{1}{4}$

Timber Tropical Fresh Water Freeboard ... .. 5'-0"

" Fresh Water ... .. 3'-9 $\frac{1}{2}$ "

" Tropical ... .. 4'-4 $\frac{1}{2}$ "

" Winter ... .. 4'-5 $\frac{1}{4}$ "

" Winter North Atlantic ... .. 5'-8 $\frac{3}{4}$ "

6'-8 $\frac{1}{4}$ "

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