

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
GEORGIA		NORWEGIAN KRISTIANSAND	7189	
Moulded Dimensions: Length 417.35' Breadth 56.9' Depth 37.33' to 2 of Rudder Stock Moulded displacement at moulded draught = 85 per cent. of moulded depth 16,600 tons (excluding bossing) Coefficient of fineness for use with Tables 771				
Port of Survey Date of Survey 3/2/85 Surveyor's Signature Particulars of Classification 1100A1				

DEPTH FOR FREEBOARD (D).				DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth	...	...	...	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) = 56.9'
Stringer plate	...	...	...	(37.41 - 27.82) 3 = +28.77"	Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$
Sheathing on exposed deck				(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam = 14.00
$T \left(\frac{L-S}{L} \right) =$					Difference = 34
Depth for Freeboard (D) =				If restricted by superstructures	Restricted to
					Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{34}{4} \times - .09 = - .09$

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					
„ overhang aft					
„ overhang forward					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure.....

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

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

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

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

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

Interpolation for bridge less than $\cdot 2L$ (if required)

Deduction = *Nil*

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	51.73	1	51.73		55.00	1	55.00
$\frac{1}{6}$ L from A.P. ...	23.02	4	92.08		23.25	4	93.00
$\frac{2}{6}$ L " ...	5.69	2	11.38		6.50	2	13.00
Amidships ...		4				4	
$\frac{3}{6}$ L from F.P. ...	11.38	2	22.76		11.63	2	23.26
$\frac{4}{6}$ L " ...	46.04	4	184.16		46.75	4	187.00
F.P.	103.47	1	103.47		105.00	1	105.00
Total ...			465.58				476.26

$$\left. \begin{array}{l} \frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} = \\ \\ \frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} = \end{array} \right\} \text{eccen.}$$

Length of enclosed superstructure
L forward of amidships =
" " aft of " = } *h₁l*

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\begin{smallmatrix} S \\ -2L \end{smallmatrix} \right) = \frac{10.68}{18} \times .75 = -.45"$
If limited on account of midship superstructure. If limit
No. Flush deck

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.

		Ft.
Depth to Freeboard Deck	=	37.41
Summer freeboard	=	9.75
		<hr/>
Moulded draught (d)	=	27.66
Keel allowance	=	

Extreme draught =

$$\text{Winter freeboard} = \frac{d}{4} \text{ inches} = 6.91 \approx 7"$$

Addition for Winter North Atlantic Freeboard (if required)=

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 = $\frac{\Delta}{40 T}$ inches
= 2 1/2"

76-95+6-26
TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.771 + 68}{1.36} = \frac{1.451}{1.36}$

	+	-	
Depth Correction	28.77	—	<div style="font-size: 2em; font-family: cursive;">AIR</div> <div style="font-size: 2em; font-family: cursive;">4.2</div>
Deduction for superstructures	—	—	
Sheer correction	—	.45	
Round of Beam correction	—	.09	
Correction for Thickness of Deck amidships	—	—	
Other corrections, scantlings, etc.	—	—	
	28.77	.84	+ 28.23

Summer Freeboard = 11.70

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck ;—

Tropical Fresh Water Line above Centre of Disc	...	14 1/2	362 1/2	Tropical Fresh Water Freeboard
Fresh Water Line	" "	7 1/2	184	Fresh Water
Tropical Line	" "	7	178	Tropical
Winter Line below	" "	7	178	Winter
Winter North Atlantic Line	" "	—	—	Winter North Atlantic