

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

GLASGOW REPORT No. 54104

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having *C.S.S with tonnage opening*

Port of Survey *Glasgow*

(Type of Superstructures.)

Date of Survey *29th Dec. 1933*

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

J. Brown & Co No 541

Name of Surveyor *Geo. Webster*

Moulded Dimensions: Length *492.0* Breadth *65.0* Depth *35.25*
Moulded displacement at moulded draught = 85 per cent. of moulded depth *19435* tons
Coefficient of fineness for use with Tables

Particulars of Classification *+100 A.1 with freeboard.*

Depth for Freeboard (D)				Depth correction		Round of Beam correction	
Moulded depth	...	...	...	35.25	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)	16 1/4"
Stringer plate	...	...	...			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	=
If restricted by superstructures				Difference			
Depth for Freeboard (D) =				Restricted to			
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right)$	=		

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<i>115.04</i>				
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	<i>371.46</i>				
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	<i>5.50</i>				
" " forward ...					
Total ...					

Standard Height of Superstructure
" " R.Q.D.
Deduction for complete superstructure
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$
" " $\frac{E}{L} =$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpol
ation for bridge less than "21" (if required)
Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1			<i>55.5</i>		1		
1/8 L from A.P. ...		4			<i>24.5</i>		4		
2/8 L " ...		2			<i>6.1</i>		2		
Amidships ...		4			<i>0</i>		4		
2/8 L from F.P. ...		2			<i>122.5</i>		2		
1/8 L " ...		4			<i>49.2</i>		4		
F.P. ...		1			<i>111.0</i>		1		
Total ...									

Mean actual shear aft =
Mean standard shear aft =
Mean actual shear forward =
Mean standard shear forward =
Length of enclosed superstructure forward of amidships =
" " aft of " =

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

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 = Ft.
Summer freeboard =
Moulded draught (d) =

Deduction for Tropical freeboard and addition for

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

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
draft 38-6 3/4" 29-6 3/4" 19465 19220
Tons per inch immersion at summer load water line
1' = 63.0 62.5
Deduction = $\frac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

Depth Correction ...
Deduction for superstructures ...
Sheer correction ...
Round of Beam correction ...
Correction for Thickness of Deck amidships ...
Other corrections, cantlings, etc. ...

	+	-
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, cantlings, etc.		

Summer Freeboard =

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

Tropical Fresh Water Line above Centre of Disc ...
Fresh Water Line " " ...
Tropical Line " " ...
Winter Line below " " ...
Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ...
Fresh Water " ...
Tropical " ...
Winter " ...
Winter North Atlantic " ...

Plans of midship section & profile enclosed & also sheet of particulars