

DISCLOSED SECTION NO 258

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **29945**
(For London Office only.)Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~
having a flush deck

Port of Survey

Date of Survey 30th June 1931

Name of Surveyor

Ship's Name

(Type of Superstructures.)

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

S.S. "Christy Payne"1921Moulded Dimensions: Length 462.83' Breadth 60.0' Depth 37.27'

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

Coefficient of fineness for use with Tables .823 (Estimated as "Livingstone Roc" sister ship)Particulars of Classification +100 A. 1.Shelter deck with freeboard
Carrying petroleum in bulk

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	37.27	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	
Stringer plate	.06	(37.33 - 30.86) 3. + 19.41		Standard Round of Beam = $\frac{B \times 12}{50}$	14.40
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	12.00
$T \left(\frac{L-S}{L} \right) =$				Difference	2.40
Depth for Freeboard (D) =	37.33	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	2.4

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					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure 42.0Percentage 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))

Interpolation for bridge less than 2L (if required)

Deduction =

allowance for
a forecastle of $L \cdot 07L$
would be
 42×0.049
 $= 2.06$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	56.28	1		30.75	30.75	1	30.75
$\frac{1}{6}L$ from A.P. ...		4		1.50	1.50	4	6.00
$\frac{2}{6}L$ " ...		2		-	-	2	-
Amidships ...		4		-	-	4	-
$\frac{3}{6}L$ from F.P. ...		2		-	-	2	-
$\frac{4}{6}L$ " ...		4		12.00	12.00	4	48.00
F.P. ...	112.56	1		77.00	77.00	1	77.00
Total ...			506.52				161.75

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 " =

} Tankers

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{344.77 \times .75}{18} = +14.37"$

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 = 37.33Summer freeboard = 10.26Moulded draught (d) = 27.07

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.77

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ...

Deduction for superstructures No. 1

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

48.4186.6619.412.0644.37.60---36.44+36.44Summer Freeboard = 123.10Approximate estimate of Summer freeboard: 10'-3"Summer freeboard assigned by American Bureau: 10'-3 1/4"