

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey
having					Date of Survey 4-4-32
(Type of Superstructures.)					Name of Surveyor
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification
CEORINGTON COURT					+100 A1
Moulded Dimensions: Length 399.5 Breadth 52.0 Depth 31.0 ✓					
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12070 ✓ tons					
Coefficient of fineness for use with Tables 772 ✓					

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	31.00 ✓	(a) Where D is greater than Table depth (D - Table depth) R =	(31.04 - 26.63) 3 = 13.23 ✓	Moulded Breadth (B)	52 ✓
Stringer plate	0.04 ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	$\frac{52 \times 12}{50} = 12.48$ ✓
Sheathing on exposed deck	-			Ship's Round of Beam	13 ✓
$T \left(\frac{L-S}{L} \right) =$				Difference	52 ✓
Depth for Freeboard (D) =	31.04 ✓	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{52}{4} \times 499 = -106$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	49.25 ✓	49.25 ✓	7.96 ✓	-	49.25 ✓	Standard Height of Superstructure 7.49 ✓
" overhang ...						" " R.Q.D. 41.96 ✓
R.Q.D. enclosed ...						Deduction for complete superstructure
" overhang ...						Percentage covered $\frac{S}{L} = 50.12$ ✓
Bridge enclosed ...	112.67 ✓	112.67 ✓	"	-	112.67 ✓	" $\frac{S_1}{L} = 50.12$ ✓
" overhang aft ...						" $\frac{E}{L} = 50.12$ ✓
" overhang forward ...						Percentage from Table, Line A.
F'cle enclosed ...	38.25 ✓	38.25 ✓	"		38.25 ✓	(corrected for absence of forecastle (if required))
" overhang ...						Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction = $41.96 \times .361 = -15.15$ ✓
" " forward						
Total ...	200.17 ✓	200.17 ✓			200.17 ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual sheer aft =	Mean standard sheer aft =
A.P. ...	49.95 ✓	1			60 ✓		1		60.0 ✓	Excess ✓	
L from A.P. ...		4			26.1 ✓		4		104.4 ✓	Mean actual sheer forward =	Mean standard sheer forward =
L " ...		2			6.5 ✓		2		13.0 ✓	do ✓	
Midships ...		4			-		4		-	Length of enclosed superstructure forward of amidships =	.16
L from F.P. ...		2			13.2 ✓		2		26.4 ✓	" " aft of " =	.12
L " ...		4			52.9 ✓		4		211.6 ✓		
A.P. ...	99.90 ✓	1			120 ✓		1		120.0 ✓		
Total ...				449.5 ✓					535.4 ✓		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{185.9}{18} (.75 - .25) = -2.39$ ✓

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 = 31.04 ✓

Summer freeboard = 5.98 ✓

Moulded draught (d) = 25.06 ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.26 = 6.26 ✓

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

$$T =$$

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{.772}{1.452} = 1.36$$

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	13.23	
Deduction for superstructures		15.15
Sheer correction		2.29
Round of Beam correction		.06
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	71.79	

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	"

Difference from 1906

S. - 1/4" W. + 1/2" ✓

© 2021

Lloyd's Register Foundation

W460-0082