

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. \_\_\_\_\_  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

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

Date of Survey \_\_\_\_\_

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

Particulars of Classification \_\_\_\_\_

(Type of Superstructures.)

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Moulded Dimensions: Length 399.1 Breadth 52 Depth 37.67  
Moulded displacement at moulded draught = 85 per cent. of moulded depth 15085 tons  
Coefficient of fineness for use with Tables 795

Depth for Freeboard (D)

depth ... 37.67

plate ... 04

on exposed deck

 $\frac{L-S}{L} =$ 

Depth for Freeboard (D) = 37.71

Depth correction

(a) Where D is greater than Table depth  
(D-Table depth) R =

(37.71 - 26.61) 3 = + 33.30

(b) Where D is less than Table depth (if allowed)  
(Table depth-D) R =

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)

Standard Round of Beam =  $\frac{B \times 12}{50} =$ 

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L}) = \text{Rule}$ 

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Superstructure enclosed ...					
Overhang ...					
Q.D. enclosed ...					
Overhang ...					
Ridge enclosed ...					
Overhang aft ...					
Overhang forward ...					
Deck enclosed ...					
Overhang ...					
Trunk aft ...					
Forward ...					
Tonnage opening aft ...					
Forward ...					
Total ...					

Standard Height of Superstructure

R.Q.D.

Deduction for complete superstructure

Percentage covered  $\frac{S}{L} =$  $\frac{S_1}{L} =$  $\frac{E}{L} =$ 

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 =

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..		1				1	
from A.P. ...		4				4	
" ...		2				2	
amidships ...		4				4	
from F.P. ...		2				2	
" ...		4				4	
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 =  
L

aft of amidships =

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  $1\frac{1}{2}$  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

 $\Delta =$ 

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  $\frac{795 + 68}{1.36} = \frac{1475}{1.36}$ 

Depth Correction ... 33.30

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

Summer Freeboard = 110.54

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 " " ...	...

© 2020

Lloyd's Register  
Foundation



28'-6" ✓

△

13,230 ✓

T.P. 1.

42.8 ✓

85' 6" hld. 32'-0 1/4  
Keel 2 3/4  
32'-3"  
28'-6"  
3'-9"

$$45 \times 42.8 = 1930$$
$$\begin{array}{r} 13230 \\ 15160 \\ 75 \\ \hline 15085 \end{array}$$



© 2020

Lloyd's Register  
Foundation