

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index. No. **21379.**  
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

aving

Port of Survey

(Type of Superstructures.)

Date of Survey

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Name of Surveyor

Moulded Dimensions: Length

Breadth

Depth

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

Coefficient of fineness for use with Tables

790

Particulars of Classification

+100 A.1.

Depth for Freeboard (D)

Moulded depth ...

Freeboard ...

on exposed deck

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

Depth for Freeboard (D) =

29.41

Depth correction

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

+15.08"

(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 =  $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$  = -0.05"

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
enclosed ...					
overhang ...					
D. enclosed ...					
overhang ...					
ge enclosed ...					
overhang aft ...					
overhang forward ...					
enclosed ...					
overhang ...					
ak aft ...					
forward ...					
age opening aft ...					
" forward ...					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

39.30"

Percentage covered  $\frac{S}{L}$  =" "  $\frac{S_1}{L}$  =" "  $\frac{E}{L}$  = 40.78%

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. Timber

63.48%

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =  $39.30 \times 63.48 = -24.95$ "

## SHEER CORRECTION.

ion	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...		1				1	
A.P. ...		4				4	
...		2				2	
s ...		4				4	
F.P. ...		2				2	
...		4				4	
...		1				1	
tal ...							

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 " =

ection =  $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L}\right) = -2.42$ "

imited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

on for Tropical Freeboard.  
n for Winter and Winter North  
tic Freeboard.Depth to Freeboard Deck = 29.41  
Summer freeboard = 4.31  
Moulded draught (d) = 25.10for Tropical freeboard and addition for  
er freeboard =  $\frac{d}{4}$  inches = 6.27 = 6¼"for Winter North Atlantic Freeboard (if  
red) =  $\frac{d}{3} = 8.37 = 8½"$ 

Deduction for Fresh Water.

Displacement in salt water at  
summer load water line

Δ =

Tons per inch immersion at  
summer load water line

T =

Deduction =  $\frac{\Delta}{40T}$  inches  
= 6¼"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

64.04

Depth Correction	...	15.08	-
Deduction for superstructures	...	-	24.95
Sheer correction	...	-	2.42
Round of Beam correction	...	-	.05
Correction for Thickness of Deck amidships	...	-	-
Other corrections, scantlings, etc.	...	-	-

15.08 27.42 - 12.34

Summer Freeboard = 51.70"

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

Timber Tropical Fresh Water Line above Centre of Disc ... 26"

" Fresh Water Line " " ... 19¼"

" Tropical Line " " ... 19¼"

" Winter Line below above ... 5¼"

" Winter North Atlantic Line " below, ... 6¼"

" Summer line above centre of disc ... 13½"

Timber Tropical Fresh Water Freeboard ... 3' 3¼"

" Fresh Water " ... 3' 9½"

" Tropical " ... 3' 9½"

" Winter " ... 5' 0"

" Winter North Atlantic " ... 5' 1½"

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Timber Freeboards not  
marked 22/5/33