

Timber Deck Cargoes

Index. No. 25001  
(For London Office only.)

Rpt. 11.

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Living

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

Breadth

Depth

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

tons

Coefficient of fineness for use with Tables

782

Depth for Freeboard (D)

Moulded depth ...

Stringer plate ...

Sheathing on exposed deck

$$T \left( \frac{L-S}{L} \right) =$$

Depth for Freeboard (D) =

27.62

Depth correction

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

+20.92

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

If restricted by superstructures

Round of Beam correction

Ided Breadth (B)

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

$$\text{P's Round of Beam} =$$

Difference

(Restricted to

$$\text{Correction} = \frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = -27$$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
„ enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure

31.30

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

„  $\frac{S_1}{L} =$

„  $\frac{E}{L} = 58.20\%$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B Timber 74.37%

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

$$\text{Deduction} = 31.30 \times 74.37 = -23.28$$

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
from A.P. ...		4				4	
„ ...		2				2	
dships ...		4				4	
3/4 L from F.P. ...		2				2	
„ ...		4				4	
„ ...		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 „ =

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( 75 - \frac{S}{2L} \right) = +2.48$$

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 = 27.62  
Summer freeboard = 2.94  
Moulded draught (d) = 24.68

Correction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 6.17 = 6 1/4

Correction for Winter North Atlantic Freeboard (if required) =  $\frac{d}{3} = 8.23 = 8 1/4$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40 T}$  inches = 6 1/4

TABULAR FREEBOARD corrected for Flush 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, scantlings, etc. ...

+	-
20.92	
	23.28
2.48	
	27
23.40	23.55

Summer Freeboard = 35.25

32.93

35.40

g.m.m  
14-12-32

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

Timber Tropical Fresh Water Line above Centre of Disc ...  
„ Fresh Water Line ...  
„ Tropical Line ...  
„ Winter Line ...  
„ Winter North Atlantic Line ...

Timber Tropical Fresh Water Freeboard ...  
„ Fresh Water ...  
„ Tropical ...  
„ Winter ...  
„ Winter North Atlantic ...

2' 11 1/4"  
1' 10 3/4"  
2' 5"  
2' 5"  
3' 7 1/2"  
4' 5"