

Timber Deck Cargo.

Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____

Port of Survey _____

(Type of Superstructures.)

Date of Survey _____

Ship's Name

Tela.

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

tons

Coefficient of fineness for use with Tables

758

Particulars of Classification

+ 100 A.1.

Depth for Freeboard (D)

Moulded depth

Stringer plate

Sheathing on exposed deck

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

Depth for Freeboard (D) =

27.29

Depth correction

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

+ 16.33

(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 = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ *-.03*

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					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure *35.67*

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

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$ *44.51 %*

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. *Timber. 65.82 %*

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = *35.67 × 65.82 = - 23.48*

SHEER CORRECTION.

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *- 1.85*

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 = *27.29*

Summer freeboard = *3.18*

Moulded draught (d) = *24.11*

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = *6.03" = 153 mm*

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ *8.04" = 204 mm*

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

153 mm

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

47.21

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	<i>16.33</i>	-
Deduction for superstructures	-	<i>23.48</i>
Sheer correction	-	<i>1.85</i>
Round of Beam correction	-	<i>.03</i>
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	<i>16.33</i>	<i>25.36</i>

Summer Freeboard = *38.18*

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 *24.88" = 631 mm*

" Fresh Water Line " " *18.85 ... 478*

" Tropical Line " " *18.85 ... 478*

" Winter Line below above, *4.78 ... 121*

" Winter North Atlantic Line " below, *7.26 ... 185*

" Summer Line above centre of disc *12.82 325*

Timber Tropical Fresh Water Freeboard ... *38.18" = 976 mm*

" Fresh Water " " *26.12" = 664*

" Tropical " " *32.15" = 817*

" Winter " " *32.15" = 817*

" Winter North Atlantic " " *46.22" = 1174*

" Winter North Atlantic " " *58.26" = 1480*

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