

Forecastle increased 2 frame spaces.

C.M.

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 4/12/36

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

with them heath N:596

Name of Surveyor

Moulded Dimensions: Length 225 Breadth 33 Depth 16.5

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

Coefficient of fineness for use with Tables

708

Particulars of Classification

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth

Keel plate

Plating on exposed deck

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

Depth for Freeboard (D) =

16.54

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

+2.66

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

If restricted by superstructures

Moulded Breadth (B)

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

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

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{0.8 \times 38.3}{4} = 0.1$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	99.50	99.50	7.5	-	99.50
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	13.50	13.50	7.5	-	13.50
" overhang aft					
" overhang forward					
Forecastle enclosed	25.83	25.83	7.0	-	25.83
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					138.83

Standard Height of Superstructure

6.0

" " R.Q.D.

Deduction for complete superstructure

28.5

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

61.7

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

61.7

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

61.7

Percentage from Table, Line A.

48.89

(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 = 28.5 x 48.89 = -13.93

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
P.		1			22.00		1		
from A.P.		4			9.79		4		
" "		2			2.42		2		
amidships		4			-		4		
from F.P.		2			7.15		2		
" "		4			28.92		4		
P.		1			65.00		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 " =

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{100.51}{18} \left(\frac{75-308.5}{2 \times 225} \right) = -2.47$$

If limited on account of midship superstructure. 2.47 x 1.02 = -1.26

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 = 16.56
Summer freeboard = 1.33
Moulded draught (d) = 15.23

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

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
2.66	-
-	13.93
-	1.26
-	0.01
0.24	-
-	-
2.90	15.20

Summer Freeboard = 15.82

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 " "

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003252-003262-0036