

11.

Estimate

Index No. 320

Index No. (For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Dimensions: Length 219.00 Breadth 34.50 Depth 17.50
Displacement at moulded draught = 85 per cent. of moulded depth tons
Finesness for use with Tables .785

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded Breadth (B) 34.50
Standard Round of Beam = $\frac{B \times 12}{50} = 8.28$
Ship's Round of Beam = 8.50
Difference .22
Restricted to
Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.22}{4} \times .3426 = .0187$

(a) Where D is greater than Table depth
(D - Table depth) R = $(17.53 - 14.60) 1.684$
= +4.93
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =
If restricted by superstructures

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
63.16	63.16	3'-10"		63.16
60.71	54.64	7'-0"		54.64
2.50	1.25	7'-0"		1.25
24.91	24.91	7'-0"		24.91
151.28	143.96			143.96

Standard Height of Superstructure 6.00
" " R.Q.D. 3.793
Deduction for complete superstructure 27.90
Percentage covered $\frac{S}{L} = 69.07\%$
" " $\frac{S_1}{L} = 65.74\%$
" " $\frac{E}{L} = 65.74\%$
Percentage from Table, Line A. 53.76
(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 = $27.9 \times .5576 = -15.55$

SHEER CORRECTION.

Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
31.90	1	31.90	31.00	31.00	1	31.00
14.19	4	56.76	13.82	13.82	4	55.28
3.51	2	7.02	3.45	3.45	2	6.90
	4				4	
7.02	2	14.04	8.34	8.34	2	16.68
8.38	4	113.52	33.38	33.38	4	133.52
3.80	1	63.80	75.00	75.00	1	75.00
		287.04				318.38

Mean actual sheer aft = Deficient > 75% standard
Mean standard sheer aft
Mean actual sheer forward = Excess
Mean standard sheer forward
Length of enclosed superstructure forward of amidships =
" " aft of " =

Difference between sums of products 18
Count of midship superstructure.
 $(.75 - \frac{S}{2L}) = \frac{31.34}{18} (.75 - .3453) = -.70$
 $\frac{.166}{.200} \times .70 = -.58$
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Tropical Freeboard.

Winter and Winter North Atlantic Freeboard.

Freeboard Deck = 17.53
Freeboard = 1.44
Moulded draught (d) = 16.09

Tropical freeboard and addition for
and = d inches = 4.02

for Winter North Atlantic Freeboard (if required) = 6

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

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Summer Freeboard

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 ...

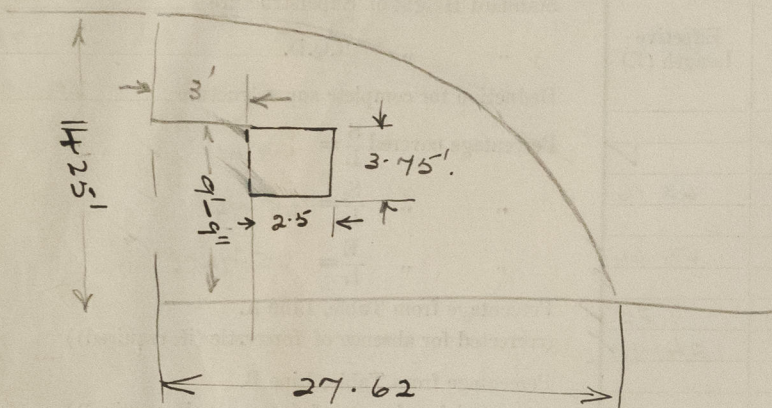
Tropical Fresh Water Freeboard ...
Fresh Water ...
Tropical ...
Winter ...
Winter North Atlantic ...

1 MAY 1926

"Vasco."

SURVEYS FOR FREBOARD.

Fore castle



$$\begin{array}{r} \text{Fore castle} \quad 27.62 \\ - \quad 2.00 \\ \hline 25.62 \end{array}$$

Fore castle

$$\begin{array}{r} 27.62 \\ 2.71 \quad \text{O.H.} \\ \hline 24.91 \quad \text{equiv.} \end{array}$$

Recess.

$$\begin{array}{r} 9.75 \times 3 \\ 14.25 \\ \hline = 2.05 \end{array} \quad \checkmark$$

$$\begin{array}{r} 3.75 \times 2.5 \\ 14.25 \\ \hline = .66 \end{array} \quad \checkmark$$

$$\begin{array}{r} .66 \\ 2.71 \\ \hline \end{array} \quad \checkmark$$



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