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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

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Name of Surveyor

Moulded Dimensions: Length **223** Breadth **35.5** Depth **12.5**
Moulded displacement at moulded draught = 85 per cent. of moulded depth **20.0** tons
Coefficient of fineness for use with Tables **.718**

Particulars of Classification

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 12.5	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B)
Superplate03	(b) Where D is less than Table depth (if allowed) (Table depth—D) R = (14.87 - 12.53) 1.715	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Height on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = 12.53		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right)$ =

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					
Forecastle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure **6**
„ „ R.Q.D. _____
Deduction for complete superstructure **28.3**
Percentage covered $\frac{S}{L}$ =
„ „ $\frac{S_1}{L}$ =
„ „ $\frac{E}{L}$ = **100%**
Percentage from Table, Line A.
(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 = **-28.3**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
... ..	32.30	1		32.3	50.3	1	
... ..		4				4	
... ..		2				2	
... ..		4				4	
... ..		2				2	
... ..		4				4	
... ..	64.6	1		64.6	82.6	1	
Total			290.7				398.7

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 „ =

L. Rule standard T.D. height. **7'-6"**
to convention **6'-0"**
excess added to sheer. **1'-6"**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{108}{18} \times .25 = 1.5$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Correction for Tropical Freeboard.
Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **12.53**
Summer freeboard = **-5.0**
Moulded draught (d) = **13.03**

Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =
Correction for Winter North Atlantic Freeboard (if required) =

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 =

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.

27.17
27.93
+
-
4.02
28.30
1.50
33.82
33.82
Summer Freeboard = 5.89

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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