pt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 18616
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
"ASTRIANA"				

Moulded Dimensions: Length 164.0' / Breadth 28.00' / Depth 13.83' /

Moulded displacement at moulded draught = 85 per cent. of moulded depth 1103 / tons

Coefficient of fineness for use with Tables .702 /

Port of Survey London.

Date of Survey 22/9/32.

Name of Surveyor

Particulars of Classification

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... ...

Sheathing on exposed deck $T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 13.86 /

Depth correction

(a) Where D is greater than Table depth
(D—Table depth) R = +3.51 /

(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 = $\frac{\text{Diff}^{e}}{4} \times \left(1-\frac{S_1}{L}\right)$ = −.44 /

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					
Forecle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward					
Total					

Standard Height of Superstructure 6.0 /

„ „ R.Q.D.

Deduction for complete superstructure 22.40 " /

Percentage covered $\frac{S}{L}$ = 43.39 /

„ „ $\frac{S_1}{L}$ = 43.04 /

„ „ $\frac{E}{L}$ = 43.04 /

Percentage from Table, ~~Line A.~~
(corrected for absence of forecastle (if required))

Percentage from Table, ~~Line B.~~ Timber. 64.90 /
(corrected for absence of forecastle (if required))

Interpolation for bridge less than ·2L (if required)

Deduction = 22.4 x .649 = − 14.43. /

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
F.P.		1				1	
¼ from A.P. ...		4				4	
½ „ ...		2				2	
Amidships ...		4				4	
½ from F.P. ...		2				2	
¼ „ ...		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 / L forward of amidships =

„ „ aft of „ =

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

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

		Ft.
Depth to Freeboard Deck	=	13.86 /
Summer freeboard	=	·54 /
Moulded draught (d)	=	13.32 /

Deduction for Tropical freeboard ~~and addition for~~ Winter freeboard = $\frac{d}{4}$ inches = 3.33 / = 3¼" / 857

Addition for Winter ~~North Atlantic~~ Freeboard (if required) = $\frac{d}{3}$ = 4.44 = 4½ 1137

Deduction for Fresh Water.

Displacement in salt water at summer load water line

△ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\triangle}{40\,T}$ inches

=

$\frac{d}{4}$ = 3¼" /

TABULAR FREEBOARD corrected for Flush Deck (if required) 18.14 /

Correction for coefficient

	+	−
Depth Correction	3.51 /	−
Deduction for superstructures	−	14.43 /
Sheer correction	−	−
Round of Beam correction	−	.44 /
Correction for Thickness of Deck amidships ...	−	−
Other corrections, scantlings, etc.	− /	−
	3.51	15.20 /

− 11.69 /

Summer Freeboard = 6.48 /

S.T.B. 23.9.32

SUMMER FREEBOARD amidships from ~~Centre of Disc to~~ top of Deck Line, ~~Wood~~, Steel, Deck: 16520 - 6½" =

Timber	Tropical Fresh Water Line above Centre of Disc ...	14" 361 Timber	Tropical Fresh Water Freeboard ...	Minus	570 - 0"
„	Fresh Water Line „ „ ...	10¾" 276 „	Fresh Water „ ...		802 0 - 3¾"
„	Tropical Line „ „ ...	10¾" 2767 „	Tropical „		802 0 - 3¾"
„	Winter Line ~~below~~ above „ ...	3" 787 „	Winter „ ...		2787 0 - 11"
„	Winter North Atlantic Line ~~below~~ above „ ...	3½" 892 „	Winter North Atlantic „ ...		4457 ~~1 - 8½"~~ 1 - 5½"

26 SEP 1932

„ Summer line above „ = 7½" 1917

5m,3,32.

12 NOV 1932

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