Rpt. C.11 (Comp.).

Basic computation for Scantlings purposes only
C.S.S.

Index. No. 36834
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Greenock Dkyd. Co. Ltd's Yard No. 454				

Moulded Dimensions: Length 470·5 ✓ Breadth 65·5 ✓ Depth 32·38 ✓
Amidships of middle Stock

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

Coefficient of fineness for use with Tables ·68 (actual: less) ✓

Port of Survey .....

Date of ~~Survey~~ 20-4-42

Surveyor's Signature .....

Particulars of Classification Loose with freeboard (Contemplated).

Depth for Freeboard (D).

Moulded depth	✓	32·38
Stringer plate	✓	·04
Sheathing on exposed deck $T\left(\frac{L-S}{L}\right)$ =		~~·42~~
Depth for Freeboard (D) =		~~32·38~~

Depth correction.

(a) Where D is greater than Table depth (D—Table depth) R =
(32·38 − 31·36) 3 = + 3·06 ~~·18~~
~~·42~~ 1·02

(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 assumed standard
Restricted to
Correction = $\frac{\text{Diff}^e}{4} \times \left(1-\frac{S_1}{L}\right)$ = Nil

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					

C.S.S. ✓

Standard Height of Superstructure 7·5
„ „ R.Q.D. —
Deduction for complete superstructure 42" ✓

Percentage covered $\frac{S}{L}$ = } 100
„ „ $\frac{S_1}{L}$ = }
„ „ $\frac{E}{L}$ = }

Percentage from Table, Line A. 100 ✓
(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 = 42 × 1·0 = — 42·00 ✓

SHEER CORRECTION.

L.R. Rule Minimum height = 8·00
Standard — — = 7·50

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{6}$L from A.P. ...		4				4	
$\frac{2}{6}$L „ ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$L from F.P. ...		2				2	
$\frac{1}{6}$L „ ...		4				4	
F.P.		1				1	
Total ...							

assumed standard

Mean actual sheer aft / Mean standard sheer aft = 1 ✓

Mean actual sheer forward / Mean standard sheer forward = 1

Length of enclosed superstructure / L forward of amidships =
„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18}\left(\cdot 75-\frac{S}{2L}\right)$ = — ·50 ✓
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 =		~~32·38~~ 32·42
Summer freeboard =		4·581
Moulded draught (d) =		~~27·88~~ 27·91

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
△ =
Tons per inch immersion at summer load water line
T =
Deduction = $\frac{\triangle}{40\,T}$ inches
=

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 93·45 ✓
93·45
Correction for coefficient Nil

	+	−
Depth Correction	~~·18~~ 3·00	—
Deduction for superstructures	—	42·00 ✓
Sheer correction	—	·50 ✓
Round of Beam correction	—	—
Correction for Thickness of Deck amidships ...	—	—
Other corrections, scantlings, etc.	~~·18~~	— ✓
	~~3·06~~ 3·00	42·50

~~·32~~ ~~·44~~ − 39·45
Summer Freeboard = ~~54·07~~ 54·13

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :— 4·581

Tropical Fresh Water Line above Centre of Disc				Tropical Fresh Water Freeboard	
Fresh Water Line	„	„	... ...	Fresh Water „	
Tropical Line	„	„	... ...	Tropical „	
Winter Line	below	„	... ...	Winter „	
Winter North Atlantic Line	„	„	... ...	Winter North Atlantic „	

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