Timber Deck Cargo

Rpt. C.11.

Lloyd's Register of Shipping.

Index. No. 28110
(For London Office only.)

SURVEYS FOR FREEBOARD.

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
"Fredrika"				

Port of Survey .....

Date of Survey .....

Name of Surveyor .....

Particulars of Classification ✠100 A1.

Formed Dimensions: Length Breadth Depth

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

Coefficient of fineness for use with Tables .791

...th for Freeboard (D)

... ...

... ...

...osed deck

... =

...th for Freeboard (D) = 19.79 ✓

Depth correction

(a) Where D is greater than Table depth (D—Table depth) R = +4.32" ✓

(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 = $\frac{\text{Diff}^{e}}{4} \times \left(1 - \frac{S_1}{L}\right)$ = −.04" ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
...l					
...ng					
...ed ...					
...ang ...					
...ed					
...ang aft ...					
...ang forward					
...l					
...ng					
... ...					
...rd					
...ning aft ...					
,, forward					
... ...					

Standard Height of Superstructure .....

,, ,, R.Q.D. .....

Deduction for complete superstructure 32.50 ✓

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

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

,, ,, $\frac{E}{L}$ = 61.21% ✓

Percentage from Table, ~~Line A.~~ Timber (corrected for absence of forecastle (if required)) 76.23% ✓

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

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

Deduction = 32.50 × .7623 = −24.77" ✓

SHEER CORRECTION.

Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
	1				1	
	4				4	
	2				2	
	4				4	
	2				2	
	4				4	
	1				1	

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ =

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ =

$\frac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

,, ,, aft of ,, =

= $\frac{\text{Difference between sums of products}}{18}$ $\left(\cdot 75 - \frac{S}{2L}\right)$ = −.58" ✓

...on account of midship superstructure.

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

...or Tropical Freeboard.
...r Winter and Winter North ...reeboard.

		Ft.
...t to Freeboard Deck	=	19.79 ✓
...ner freeboard	=	1.52 ✓
Moulded draught (d)	=	18.27 ✓

Tropical freeboard ~~and addition for ...eboard~~ = $\frac{d}{4}$ inches = 4.57" ✓ = 116 m/m ✓

Winter ~~North Atlantic~~ Freeboard ~~(if~~ = $\frac{d}{3}$ = 6.09" ✓ = 155 m/m ✓

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

= 116 m/m ✓

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 35.45 ✓

Correction for coefficient 38.34 ✓

	+	−
Depth Correction	4.32 ✓	−
Deduction for superstructures	−	24.77 ✓
Sheer correction	−	.58 ✓
Round of Beam correction	−	.04 ✓
Correction for Thickness of Deck amidships ... (for omission of Hood on R.Q.D. aft)	−	−
Other corrections, scantlings, etc.	.92 ✓	−
	5.24 ✓	25.39 ✓

− 20.15" ✓

Summer Freeboard = 18.19" ✓ 462 m/m

SUMMER FREEBOARD amidships from ~~Centre of Disc to~~ top of Deck Line, ~~Wood~~, Steel, Deck :— 462 m/m.

Timber	Tropical Fresh Water Line above Centre of Disc ...	✓ 405 m/m	Timber	Tropical Fresh Water Freeboard	230 m/m
,,	Fresh Water Line ,, ,, ...	✓ 289 m/m	,,	Fresh Water ,, ...	346 m/m
,,	Tropical Line ,, ,, ...	✓ 289 m/m	,,	Tropical ,, ...	346 m/m
,,	Winter Line ~~below~~ above ,, ...	✓ 18 m/m	,,	Winter ,, ...	617 m/m
,,	Winter North Atlantic Line ,, below ,, ...	✓ 199 m/m	,,	Winter North Atlantic ,, ...	834 m/m
,,	Summer Line above Centre of Disc.	173 m/m ✓			

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Studs not marked
See Rpt C12(a) dated 14/1/33

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