– TIMBER. –

Rpt. C.11.

Lloyd's Register of Shipping.

Index. No. 14456
(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
ARMURU				

Moulded Dimensions: Length Breadth Depth

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

Coefficient of fineness for use with Tables .795.

Port of Survey .....

Date ~~of Survey~~ 11. 4. 34

Name of Surveyor .....

Particulars of Classification + 100 A1.

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... ...

~~Sl~~eathing on exposed deck

$T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 7251.

Depth correction

(a) Where D is greater than Table depth
(D—Table depth) R =
+ 157 m.m.

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

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					

Standard Height of Superstructure .....

„ „ R.Q.D. .....

Deduction for complete superstructure 930

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

„ „ $\frac{S_1}{L}$ =

„ „ $\frac{E}{L}$ = 50.08.%

Percentage from Table, ~~Line~~ A. Timber
(~~corrected for absence of forecastle (if required)~~) 69.30 %

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

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

Deduction = 930 × .693 = — 644 m.m

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
P.		1				1	
from A.P. ...		4				4	
„ ...		2				2	
midships ...		4				4	
from F.P. ...		2				2	
„ ...		4				4	
... ...		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 = $\frac{\text{Difference between sums of products}}{18}\left(\cdot 75-\frac{S}{2L}\right)$ = — 10 m.m.

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 = 7251.

Summer freeboard = 828

Moulded draught (d) = 6423

~~Deduction~~ for Tropical freeboard ~~and addition for Winter freeboard~~ = $\frac{d}{48}$ inches = 134

Addition for Winter ~~North Atlantic~~ Freeboard ~~(if required)~~ = $\frac{d}{36}$ = 178 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
= 134 m/m

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

Correction for coefficient 1326

	+	—
Depth Correction	157	—
Deduction for superstructures	—	644
Sheer correction	—	10
Round of Beam correction	—	1
Correction for Thickness of Deck amidships ...	—	—
Other corrections, scantlings, etc.	—	—
	157	655 — 498

Summer Freeboard = 828

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

Timber	Tropical Fresh Water Line above Centre of Disc	... 577.8 m.m = 22.74"	Timber „ Tropical Fresh Water Freeboard	828 m.m	= 32.60"
„	Fresh Water Line „ „	... 444 ... = 17.47"	„ Fresh Water „	560 „	= 22.05"
„	Tropical Line „ „	... 444 ... = 17.47"	„ Tropical „	694 „	= 27.32"
„	Winter Line ~~above~~ below „	... 132 ... = 5.18"	„ Winter „	694 „	= 27.32"
„	Winter North Atlantic Line ~~above~~ below „	... 178 ... = 7.01"	„ Winter North Atlantic „	1006 „	= 39.61"
„	Summer above	310 = 12.19"		1316 m.m	= 51.80"

5m,9.32.

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