TIMBER FREEBOARDS

Rpt. C.11.

19 JUN 1933

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

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker having Poop Bridge Forecastle

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
BALTIA.	Swedish Trelleborg	3578	2280	1900 /

Moulded Dimensions: Length 302·6 Breadth 42·82 Depth 22·3

Moulded displacement at moulded draught = 85 per cent. of moulded depth 5554 tons

Coefficient of fineness for use with Tables ·792

Port of Survey _____

Date of Survey 26/7/32

Name of Surveyor _____

Particulars of Classification +100 A. 1.

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... ...

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

Depth for Freeboard (D) = 22·34

Depth correction

(a) Where D is greater than Table depth (D—Table depth) R = +5·05

(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 = $\frac{\text{Diff}^{e}}{4} \times \left(1-\frac{S_1}{L}\right)$ = −·03

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					132·32

Standard Height of Superstructure _____

„ „ R.Q.D. _____

Deduction for complete superstructure 35·51

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

„ „ $\frac{S_1}{L}$ =

„ „ $\frac{E}{L}$ = 43·73

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

Percentage from Table, Line B. Timber 65·33 (corrected for absence of forecastle (if required))

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

Deduction = 35·51 + ·6533 = −23·2

SHEER CORRECTION.

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 ...							

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 = $\frac{\text{Difference between sums of products}}{18}\left(\cdot 75-\frac{S}{2L}\right)$ = +·23

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

		Ft.
Depth to Freeboard Deck	=	22·34
Summer freeboard	=	2·48
Moulded draught (d)	=	19·86

Deduction for Tropical freeboard ~~and addition for Winter freeboard~~ = $\frac{d}{4}$ inches = 4·965" = 126 m/m

Addition for Winter ~~North Atlantic~~ Freeboard ~~(if required)~~ = $\frac{d}{3}$ = 6·62" = 168 m/m

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 5899

Tons per inch immersion at summer load water line

T = 26·95

Deduction = $\frac{\Delta}{40\,T}$ inches = 5·47" = 139 m/m

TABULAR FREEBOARD corrected for Flush Deck (if required) 47·68

Correction for coefficient

	+	−
Depth Correction	5·05	
Deduction for superstructures		23·2
Sheer correction	·23	
Round of Beam correction		·03
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		
	5·28	23·23

− 17·95

Summer Freeboard = 29·73

Timber **SUMMER FREEBOARD** amidships ~~from Centre of Disc~~ to top of Deck Line, ~~Wood~~, Steel, Deck :— 29·73 = 755 m/m

Timber	Tropical Fresh Water Line above Centre of Disc ...	~~265~~ ...	583 m/m	Timber „ Tropical Fresh Water Freeboard 490
„	Fresh Water Line „ „ ...	~~139~~ ...	457 m/m	„ Fresh Water „ 616
„	Tropical Line „ „ ...	~~126~~ ...	444 m/m	„ Tropical „ 629
„	Winter Line below above „ ...	~~160~~ ...	150 m/m	„ Winter „ ... 923
„	Winter North Atlantic Line „ below above „		166 m/m	„ Winter North Atlantic „ ... 1239
„	Summer above		318 m/m	

MARKING FORM RECEIVED 18 MAY 1933

MARKING FORM RECEIVED 7 MAY 1935

MARKING FORM RECEIVED 19 JUN 1933

5m,3,32.

00221-00221-013

© 2021 Lloyd's Register Foundation