TIMBER DK CARGO FBDS

Rpt. C.11.

Lloyd's Register of Shipping.

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(For London Office only.)

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Poop, Bridge & F'cle

(Type of Superstructures.)

Port of Survey Bilbao

Date of Survey 1st & 2nd Dec 1932

Name of Surveyor

Particulars of Classification + 100 A.1.

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
S.S. "GASTELU"	Spanish San Sebastian		3272	1921/8

Moulded Dimensions: Length 100·826 m Breadth 14·554 m Depth 7·823 m

Moulded displacement at moulded draught = 85 per cent. of moulded depth 7760 m³ ~~tons~~

Coefficient of fineness for use with Tables ·795

RETAIN

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... ...

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

Depth for Freeboard (D) = 7·834

Depth correction

(a) Where D is greater than Table depth (D − Table depth) R = + 236 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 $= \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$ = − 2 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 950 m/m

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

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

" " $\frac{E}{L} =$ 48·40 %

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

Percentage from Table, ~~Line B.~~ TIMBER. 68·25 % (corrected for absence of forecastle (if required))

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

Deduction = 950 × ·6825 = − 648 m/m

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 " =

47·75
42
9550
19100
2005·50

47·16·3
2005·50
750·80
2755·50

Correction $= \frac{\text{Difference between sums of products}}{18}\left(\cdot 75 - \frac{S}{2L}\right) =$ − 72 m/m

If limited on account of midship superstructure.

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

RETAIN

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

		Ft.
Depth to Freeboard Deck	=	7·834
Summer freeboard	=	·924
Moulded draught (d)	=	6·910

Deduction for Tropical freeboard and addition for Winter freeboard $= \frac{d}{48}$ ~~inches~~ = 144 m/m = 5·67"

Addition for Winter ~~North Atlantic~~ Freeboard ~~(if required)~~ $= d/36$ = 192 m/m = 7·56"

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 8258 TONNEAUX.

Tonne per ~~inch~~ cm immersion at summer load water line

T = 13·0

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

= 159 m/m

= 6·26"

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

1300

Correction for coefficient 1410

	+	−
Depth Correction	236	✓
Deduction for superstructures	✓	648
Sheer correction	✓	72
Round of Beam correction	✓	2
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc.	✓	✓
	236	722

− 486

Summer Freeboard = 924

TIMBER SUMMER FREEBOARD amidships from ~~Centre of Disc to~~ top of Deck Line, ~~Wood~~, Steel, Deck :— 36·38" = 924 m/m

TIMBER Tropical Fresh Water Line above Centre of Disc	23·80" = 604 m/m	Tropical Fresh Water Freeboard ...	24·45"	= 621 m/m
" Fresh Water Line " "	18·13" = 460 m/m	Fresh Water " ...	30·12"	= 765 m/m
" Tropical Line " "	17·54" = 445 m/m	Tropical " ...	30·71"	= 780 m/m
" Winter Line ~~below~~ above "	4·31" = 109 m/m	Winter " ...	43·94"	= 1116 m/m
" Winter North Atlantic Line below "	6·08" = 155 m/m	Winter North Atlantic " ...	54·33"	= 1380 m/m
" SUMMER ABOVE "	11·87" = 301 m/m			

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MARKING FORM -9 MAR 1936 RECEIVED

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