

TIMBER DK CARGO

34231

Rpt. C.11.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Poop, Bridge & D'cle

(Type of Superstructures.)

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Vestvanger

Norwegian Oslo

✓

2420

1930/10

Port of Survey

Date of Survey

Name of Surveyor

Particulars of Classification

New Orleans La

July 31st 1932

T. G. DODD

+ 100 A

Moulded Dimensions: Length

Breadth

Depth

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

Coefficient of fineness for use with Tables

289.50

45.50

20.50

5044 tons

.769

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth

Depth correction (a) Where D is greater than Table depth (D-Table depth) R =

Moulded Breadth (B)

...

+ 2.81"

Standard Round of Beam = $\frac{B \times 12}{50}$ =

...

Depth correction (b) Where D is less than Table depth (if allowed) (Table depth-D) R =

Ship's Round of Beam =

...

If restricted by superstructures

Difference

...

Depth for Freeboard (D) = 20.56

Restricted to

...

Correction = $\frac{\text{Diff}^\circ}{4} \times (1 - \frac{S_1}{L})$ = - .05

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

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

„ „ $\frac{S_1}{L}$ =

„ „ $\frac{E}{L}$ = 51.27 %

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

Percentage from Table, Line B. TIMBER 70.04 %

(corrected for absence of forecastle (if required))

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

Deduction = 34.63 x .7004 = - 24.25"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
... ..		1					1		
from A.P. ...		4					4		
„ ...		2					2		
amidships ...		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 forward of amidships =

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} (\cdot 75 - \frac{S}{2L}) =$

- 1.24"

If limited on account of midship superstructure.

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

Correction for Tropical Freeboard.

Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 20.56

Summer freeboard = 1.73

Moulded draught (d) = 18.83

Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.71 = 4¾"

Correction for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 6.28 = 6¼" = 159 \frac{7}{8}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 5532

Tons per inch immersion at summer load water line

T = 27.14

Deduction = $\frac{\Delta}{40T}$ inches = 5.10 = 5"

Δ = 5532

T = 27.14

Deduction = $\frac{\Delta}{40T}$ inches = 5.10 = 5"

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

1.449

1.36

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

40.88

43.55

2.81

25.54

- 22.73

Summer Freeboard = 20.82

SEASUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

1' - 8¾" = 527 7/8"

0' - 11" = 279 1/2"

1' - 3¾" = 400 1/2"

1' - 4" = 406 1/2"

2' - 3" = 686 1/2"

3' - 2¾" = 984 1/2"

TIMBER

Tropical Fresh Water Line above Centre of Disc

21¼" = 540 7/8"

16½" = 419 7/8"

16¼" = 413 7/8"

5¼" = 133 7/8"

16½" = 165 7/8"

11½" = 292 7/8"

SEASUMMER

ABOVE

11½" = 292 7/8"

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