

# TIMBER DK CARGO

## Lloyd's Register of Shipping.

### SURVEYS FOR FREEBOARD.

 Index. No. **24844**  
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Leaving Poap, Bodge & F'clePort of Survey Fredrikstad

(Type of Superstructures.)

Date of Survey 4/10/32

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

GIMLENorwegian  
Oslo12711916  
12

Name of Surveyor

Particulars of Classification + 100 A.1
 Moulded Dimensions: Length 237.0 Breadth 36.25 Depth 18.0  
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 2890 tons  
 Coefficient of fineness for use with Tables 770

## Depth for Freeboard (D)

Moulded depth ... ..

Stringer plate ... ..

Sheathing on exposed deck

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

Depth for Freeboard (D) = 18.04

## Depth correction

(a) Where D is greater than Table depth  
(D - Table depth) R =+ 4.08(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)

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

$$\text{Ship's Round of Beam} =$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = - .04$$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poap 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 29.70

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

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

$$\frac{E}{L} = 42.28\%$$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. TIMBER 64.42%

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

$$\text{Deduction} = 29.70 \times .6442 = - 19.13$$

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..		1					1		
$\frac{1}{8}L$ from A.P. ... ..		4					4		
$\frac{2}{8}L$ " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{8}L$ from F.P. ... ..		2					2		
$\frac{1}{8}L$ " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

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

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.

Depth to Freeboard Deck = 18.04Summer freeboard = 1.42Moulded draught (d) = 16.62

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 4.15 = 4\frac{1}{4}

Addition for Winter North Atlantic Freeboard (if

required) =  $\frac{d}{3}$  = 5.54 = 5\frac{1}{2} = 140%

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 3195$$

Tons per inch immersion at summer load water line

$$T = 17.8$$

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

$$= 4.49$$

$$= 4\frac{1}{2}$$

$$= 114\%$$

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

Correction for coefficient

$$\frac{1.45}{1.36}$$

Depth Correction ... ..

Deduction for superstructures ... ..

Sheer correction ... ..

Round of Beam correction ... ..

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

+	-
4.08	✓
✓	19.13
25	✓
✓	.04
✓	✓
✓	✓
4.33	19.17

Summer Freeboard = 16.89

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

" Fresh Water Line

" Tropical Line

" Winter Line

" Winter North Atlantic Line below

$$10\frac{3}{4} = 425\%$$

$$12\frac{1}{2} = 317\%$$

$$12\frac{1}{4} = 311\%$$

$$2\frac{1}{2} = 63\%$$

$$4 = 102\%$$

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

$$1' - 5" = 432\%$$

$$8\frac{1}{2} = 210\%$$

$$1' - 6\frac{1}{2} = 318\%$$

$$1' - 0\frac{3}{4} = 324\%$$

$$1' - 10\frac{1}{2} = 572\%$$

$$2' - 5 = 737\%$$