

For Scantlings Only

Index No. \_\_\_\_\_  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <u>DELFTDIJK</u>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>153.35</u> Breadth <u>19.66</u> Depth <u>11.36</u>					Date of Survey <u>1.8.50</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <u>725</u>					Particulars of Classification

**DEPTH FOR FREEBOARD (D).**

Moulded depth ... .. 11.360

Stringer plate ... .. .013

Sheathing on exposed deck

$T \left( \frac{L-S}{L} \right) =$  .025

Depth for Freeboard (D) = 11.398

**DEPTH CORRECTION.**

(a) Where D is greater than Table depth  
(D - Table depth) R = 8.33(11.398 - 10.224) 30 = +293 mms.

(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 =  $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) =$  +11 mms.

**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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 ... ..	<u>75.590</u>	<u>75.380</u>			<u>75.380</u>

Standard Height of Superstructure 2.290

" " R.Q.D. 1067

Deduction for complete superstructure 1067

Percentage covered  $\frac{S}{L} =$  49.29

" "  $\frac{S_1}{L} =$  49.15

" "  $\frac{E}{L} =$  ✓

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

Percentage from Table, Line B. 35.28  
(corrected for absence of forecastle (if required))

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

Deduction = 1067 × .3528 = 376

**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 ... ..				<u>13779</u>					<u>13240</u>

Mean actual sheer aft = 7.75

Mean standard sheer aft

Mean actual sheer forward = 7.00

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = Deficient

" " aft of " = sheers.

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{539}{18} \left( \frac{.75 - .2465}{2} \right) = +15 \text{ mms.}$

If limited on account of midship superstructure. .5035 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 = 11.373 Ft.

Summer freeboard = 2.628

Moulded draught (d) = 8.745

**Deduction for Tropical freeboard and addition for**

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

**Addition for Winter North Atlantic Freeboard (if required)=****Deduction for Fresh Water.**

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

$T =$

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

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

Correction for coefficient

Depth Correction ... .. 293

Deduction for superstructures ... .. 376

Sheer correction ... .. 15

Round of Beam correction ... .. 11

Correction for Thickness of Deck amidships ... .. 25

Other corrections, scantlings, etc. ... .. 1

2623

2710

319 401 -82

Summer Freeboard = 2628

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

Tropical Fresh Water Line above Centre of Disc ... ..

Fresh Water Line " " ... ..

Tropical Line " " ... ..

Winter Line below " " ... ..

Winter North Atlantic Line " " ... ..

Tropical Fresh Water Freeboard ... ..

Fresh Water " " ... ..

Tropical " " ... ..

Winter " " ... ..

Winter North Atlantic " " ... ..



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

$$\left[ .85 - .85 \left( \frac{37.27}{40.00} \right) \right] .135$$

$$- (.85 - .792) .135$$

$$= .058 \times .135$$

$$= .007$$

$$\text{New } B_c = .732 - .007$$

$$= .725$$

Trade of ship \_\_\_\_\_

Names of sister ships \_\_\_\_\_

Builder's name and yard number \_\_\_\_\_

Owners \_\_\_\_\_

Fee £ \_\_\_\_\_



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