

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name DELFTDIJK	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey <input checked="" type="checkbox"/>
Moulded Dimensions: Length 153.35 m Breadth 19.66 m Depth 12.192 m					Date of Survey 13.7.50
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature E.Y.
Coefficient of fineness for use with Tables 732 (STATED) <input checked="" type="checkbox"/>					Particulars of Classification ?

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 12.192	(a) Where D is greater than Table depth $(D - \text{Table depth}) / R = 8.33(12.230 - 10.224) / 30 = +501 \text{ mm}$	Moulded Breadth (B) 19.660 m
Stringer plate ... 0.13	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 2.006	Standard Round of Beam = $\frac{B}{50} = 393 \text{ mm}$
$(3\frac{1}{2})$ Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = 89 \times \frac{43.69}{153.35} = 0.075$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = 305
Depth for Freeboard (D) = 12.230		Difference = -88
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{88}{4} \times 0.5085 = +11 \text{ mm}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	12.270	12.270	2.44	-	12.270
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	45.360	45.360	2.59	-	45.360
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	17.540	17.540	2.44	-	17.540
" overhang ...	4.20	2.10			2.10
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	75.590	75.380			75.38

Standard Height of Superstructure	2.290 m
R.Q.D.	<input checked="" type="checkbox"/>
Deduction for complete superstructure	1067 mm
Percentage covered $\frac{S}{L} = 49.29$	<input checked="" type="checkbox"/>
$\frac{S_1}{L} = 49.15$	<input checked="" type="checkbox"/>
Percentage from Table, Line A.	<input checked="" type="checkbox"/>
(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)	<input checked="" type="checkbox"/>
Deduction = $1067 \times 0.3528 = -376$	<input checked="" type="checkbox"/>

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate (EST.)	Effective Ordinate	S	M	Product
A.P. ...	1532	1	✓	1532	1320	1320	1	✓	1320
$\frac{1}{8}L$ from A.P. ...	680	4	✓	2720	570	570	4	✓	2280
$\frac{2}{8}L$ " ...	170	2	✓	340	130	130	2	✓	260
Amidships ...		4					4		
$\frac{3}{8}L$ from F.P. ...	340	2	✓	680	420	420	2	✓	840
$\frac{4}{8}L$ " ...	1361	4	✓	5444	1400	1400	4	✓	5600
F.P. ...	3063	1	✓	3063	2940	2940	1	✓	2940
Total ...				13779					13240

Mean actual sheer aft = **> .75** ☒
 Mean standard sheer aft = **> 1.00** ☒
 Length of enclosed superstructure forward of amidships = **deficient**
 " " aft of " = **sheer**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{539}{18} \left(\frac{.75 - .2465}{.5035} \right) = +15 \text{ mm}$ ☒
 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 = **12.205** ☒
 Summer freeboard = **2.850** ☒
 Moulded draught (d) = **9.355** ☒

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 $\frac{732 + 68}{136} = 1.412 / 1.36$

Depth Correction ... **501**
 Deduction for superstructures ... **-376**
 Sheer correction ... **15**
 Round of Beam correction ... **11**
 Correction for Thickness of Deck amidships ... **-25**
 Other corrections, scantlings, etc. ... **-**

+	-	
501		
-376		
15		
11		
-25		
-		
527	401	+126
Summer Freeboard = 2850		<input checked="" type="checkbox"/>

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

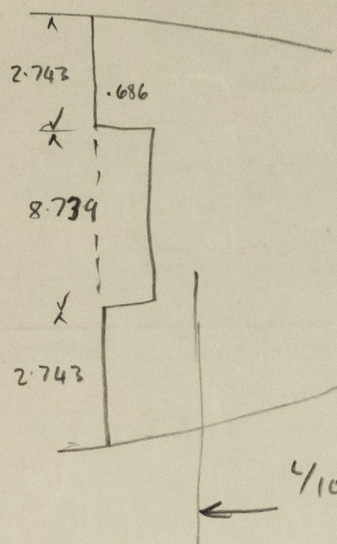
Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line	below	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"

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.

FOCLE :-

17.960

39
8.739
5486
14.225
2



$$\frac{8.739 \times .686}{14.225} = .421$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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Foundation