

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. 34895
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having 40% erectness

(Type of Superstructures.)

Port of Survey

Date of Survey 23/3/36

Name of Surveyor

Ship's Name Deutscher Hafen
No 181.

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Moulded Dimensions: Length 495 Breadth 67 Depth 34.17

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

Coefficient of fineness for use with Tables .80 (assumed)

Particulars of Classification +100 A1
Carrying between is bulk
(cont)

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded Breadth (B)

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

Ship's Round of Beam = Standard

Difference

Restricted to

Correction = $\frac{\text{Diff}^e}{4} \times (1 - \frac{S_1}{L}) =$ nil

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					
Forecastle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward					
Total ...					

Standard Height of Superstructure 7'-6" ✓

„ „ R.Q.D. ✓

Deduction for complete superstructure 42

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

„ $\frac{S_1}{L} =$ 40% ✓

„ $\frac{E}{L} =$

Percentage from Table, Line A. 53.50 ✓
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 27.50 ✓
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) 55.50

Deduction = 42 x .255 = -10.71" ✓

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		
F.P. ...		1					1		
Total ...									

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

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 = 34.24 Ft.

Summer freeboard = 8.56

Moulded draught (d) = 25.68

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

Δ =

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Fltsh Deck (if required)

Correction for coefficient $\frac{.80 + .68}{1.36} = \frac{1.48}{1.36}$

Depth Correction ... 3.72

Deduction for superstructures ... 10.71

Sheer correction ...

Round of Beam correction...

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. ...

Summer Freeboard = 102.70

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 „ „ ...	...