

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 30254.  
(For London Office only.)

Port of Survey \_\_\_\_\_

Date of Survey 17/2/31

Name of Surveyor \_\_\_\_\_

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>Christiansborg</u>	<u>COPENHAGEN.</u> <u>DANISH.</u>			<u>1921</u>	<u>100 A1</u>
Number in Register Book _____					

Moulded dimensions 332 x 48.5 x 24.50

Moulded displacement at a moulded draught of 85 per cent. of moulded depth \_\_\_\_\_

Coefficient of fineness for use with tables \_\_\_\_\_

### DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	<u>24.50</u>	x
Stringer plate	...	...	...	...	...	<u>.04</u>	x
Leathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	...		✓
Depth D =	...	...	...	...	...	<u>24.54</u>	x

### CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	...	...	...	...	...	$\left( D - \frac{L}{15} \right) \times R =$	$\left( 24.54 - 22.13 \right) 2.554$	<u>+ 6.16</u>
(b) When D is less than $\frac{L}{15}$ (if allowed).	...	...	...	...	...	$\left( \frac{L}{15} - D \right) \times R =$	...	...
If restricted by height of superstructures	...	...	...	...	...	...	...	...

### SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S <sub>1</sub> .	Height.	Correction for Height.	Effective Length.
Roop enclosed	...	...	<u>5.093</u>		
" overhang	...	...	<u>6.82</u>		
R.Q.D. enclosed	...	...	<u>7.5</u>		
" overhang	...	...			
Bridge enclosed	<u>212.30</u>	<u>212.30</u>	<u>7.5</u>	✓	<u>212.30</u>
" overhang aft	...	...			
" overhang forward	...	...			
F'cle enclosed	<u>27.20</u>	<u>27.20</u>	<u>7.5</u>	✓	<u>27.20</u>
" overhang	...	...			
Trunks forward	...	...			
" aft	...	...			
Tonnage opening	...	...			

TOTAL =

Length of ship (L) =

% Covered ... =

Corresponding % corrected for absence of forecastle if required } A =

Allowance ... =

B = 76.79

Correction for Bridge less than  $\frac{1}{2}L$  if required } ✓

37.47 x 76.79 = - 28.77

### SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<u>59.25</u>	<u>43.20</u>	<u>59.25</u>	1	<u>59.25</u>
2			<u>24.49</u>	4	<u>97.96</u>
3			<u>6.12</u>	2	<u>12.24</u>
4				4	
5			<u>12.74</u>	2	<u>25.48</u>
6			<u>50.96</u>	4	<u>203.84</u>
F.P. 7	<u>117.5</u>	<u>86.40</u>	<u>117.50</u>	1	<u>117.50</u>

If excess sheer forward and deficient sheer aft :-

Actual sheer aft  
Standard sheer aft = } excess ✓

Actual sheer forward  
Standard sheer forward =

Length of enclosed superstructure

L

Forward of amidships = ✓

Aft of amidships = ✓

Mean effective sheer	...	...	...	...	...	<u>28.68</u>	x
Standard sheer $\cdot 05L + 5 =$	...	...	...	...	...	<u>21.60</u>	x
Difference (Df)	...	...	...	...	...	<u>7.08</u>	x
Allowance = $Df \times \left( 75 - \frac{S}{2L} \right) =$	...	...	...	...	...	<u>- 2.44</u>	x
If limited on account of amidship superstructure	...	...	...	...	...		✓
If limited on account of excess sheer ( $1\frac{1}{2}$ in. per 100 ft.)	...	...	...	...	...		✓

### ROUND OF BEAM.

Standard	...	...	...	...	...	<u>11.64</u>	x
Ship	...	...	...	...	...	<u>12.00</u>	x
Difference	...	...	...	...	...	<u>- .36</u>	✓
Restricted to	...	...	...	...	...		
Allowance = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$	...	...	...	...	...	<u>0.09</u>	x

### TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient	<u>778</u>	$\frac{+ .68}{1.36} =$	<u>1.458</u>	$\frac{1.458}{1.36} =$	<u>1.072</u>	<u>51.54</u>	x
Correction for Length	...	...	...	...	...	<u>6.16</u>	x
" Superstructures	...	...	...	...	...	<u>28.77</u>	x
" Sheer	...	...	...	...	...	<u>2.44</u>	x
" Round of beam	...	...	...	...	...	<u>.02</u>	x
" Thickness of deck	...	...	...	...	...		
" Scantlings, etc.	...	...	...	...	...		
" Statutory deck line	...	...	...	...	...		

Summer Freeboard =

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :-

Fresh Water Line	above centre of Disc	...	...	...	...	...
Indian Summer Line	"	...	...	...	...	...
Winter Line	below	...	...	...	...	...
Winter North Atlantic Line	"	...	...	...	...	...

1906 { S 2' 9 1/2 x  
W 3' 1 1/2 x

Diff { S - 3 1/4 x  
W - 2 x

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Lloyd's Register Foundation