

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Port of Survey _____
Date of Survey _____
Name of Surveyor _____

Ship's Name. <i>Courtesy</i>	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification. 100A1
Number in Register Book					

Moulded dimensions $195.0 \times 30.25 \times 14.17$
Moulded displacement at a moulded draught of 85 per cent. of moulded depth 1498
Coefficient of fineness for use with tables $.738$

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	14.17
Stringer plate	...	...	...	...	...	.04
Sheathing in wells	$T \left(\frac{L-S}{L} \right) =$	...	...	...	...	✓
Depth D =	...	...	...	...	...	14.21

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$(D - \frac{L}{15}) \times R = \dots$	$(14.21 - 13.00) \times 1.5 = +1.81$
(b) When D is less than $\frac{L}{15}$ (if allowed).	
$(\frac{L}{15} - D) \times R = \dots$	
If restricted by height of superstructures	

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S ₁ .	Height.	Correction for Height.	Effective Length.
Poop enclosed					
" overhang					
R.Q.D. enclosed	110.50	110.50	4.0	-	110.50
" overhang					
Bridge enclosed	10.40	10.40	7.5	-	10.40
" overhang aft					
" overhang forward					
F'cle enclosed	20.00	20.00	7.25	-	20.00
" overhang	10.00	7.30			7.30
Trunks forward					
" aft					
Tonnage opening					

REN 110.50
B 10.40
120.90
± L 97.5
23.4

TOTAL = $\frac{150.90}{195} = \frac{148.20}{195} = \frac{148.20}{195}$
Length of ship (L) = $\frac{195}{195}$
% Covered ... = $\frac{77.4}{76.0}$

Corresponding %, corrected for } A =
absence of forecastle if required }
Allowance ... = $25.5 \times .7038 = -17.95$

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	30	29.5	30.0	1	30.0
2	16.5	16.6	16.5	4	66.0
3	7.33	7.35	7.35	2	14.7
4	1.85	1.85	1.85	4	7.4
5	3.50		3.50	2	14.0
6	13.95		13.95	2	27.9
7	31.35		31.35	4	125.4
F.P.	57	32.4	57	1	57.0

If excess sheer forward and deficient sheer aft :—

Actual sheer aft =
Standard sheer aft =
Actual sheer forward =
Standard sheer forward =

30.0
16.5
7.35
1.85
3.50
13.95
31.35
57.0

Mean effective sheer ... = 14.27
Standard sheer $.05L + 5 = 14.75$
Difference (Df) ... = $.48$
Allowance = $Df \times (.75 - \frac{S}{2L}) = .48 (.75 - .387) = .17$
If limited on account of amidship superstructure ... =
If limited on account of excess sheer ($1\frac{1}{2}$ in. per 100 ft.) ... =

Length of enclosed superstructure L
Forward of amidships = $.12L$
Aft of amidships = $.5L$

+ .17

ROUND OF BEAM.

Standard	...	...	...	...	7.26
Ship	...	...	...	...	7.50
Difference	...	...	...	...	.24
Restricted to	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L})$					$\frac{.24}{4} \times .24 = -.01$

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient $.738 + .68 = 1.36$

Correction for Length ...
Superstructures ...
Sheer ...
Round of beam ...
Thickness of deck ...
Scantlings, etc. ...
Statutory deck line ...

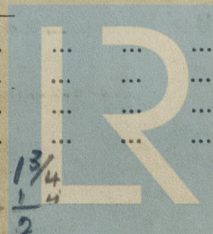
+	-
1.81	17.95
.17	
48.00	.01
49.98	17.96

22.25
23.20

+32.02
Summer Freeboard = 55.22

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

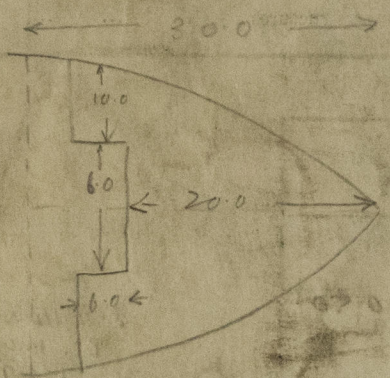
Fresh Water Line above centre of Disc ...
Indian Summer Line " " ...
Winter Line below " " ...
Winter North Atlantic Line " " ...



7 1/2
4-10 1/2

Lloyd's Register Foundation

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File $(\frac{L}{10} = 19.5)$

Closed
sidchance

60×10.0

$\frac{13}{10.0}$

20.0

4.61

24.61

80.00

25.37

2.69

24.61

27.80

10.01



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