

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Port of Survey
Date of Survey 20-12-30
Name of Surveyor

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
of St. Michael					+ 100 A1.

Moulded dimensions 351.33 x 50.25 x 27.25

Moulded displacement at a moulded draught of 85 per cent. of moulded depth 9100

Coefficient of fineness for use with tables 779

DEPTH FOR FREEBOARD.

Moulded depth	27.25
Stringer plate	.04
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	
Depth D =	27.29

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	$(D - \frac{L}{15}) \times R = (27.29 - 23.42) 2702 = 10.45$
(b) When D is less than $\frac{L}{15}$ (if allowed).	$(\frac{L}{15} - D) \times R =$
If restricted by height of superstructures	

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S ₁ .	Height.	Correction for Height.	Effective Length.
Poop enclosed	34.25	34.25	7.5	-	34.25
" overhang					
R.Q.D. enclosed					
" overhang	107.5	107.5	7.5		107.5
Bridge enclosed					
" overhang aft					
" overhang forward	38.08	37.23	7.5		37.23
F'cle enclosed					
" overhang					
Trunks forward					
" aft					
Tonnage opening					

Assuming closing appliances at fore end of Bridge conform to Convention requirements for full allowance.

TOTAL = 179.83 178.98 178.98
Length of ship (L) = 351.33 351.33 351.33
% Covered ... = 51.18 50.95 50.95

Corresponding %, corrected for absence of forecastle if required A = B = 36.95
Correction for Bridge less than 2L if required .31.
Allowance ... = 38.75 x 36.95 = -14.31

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P.	39	45.13	39.00	1	39.00
	21.45		21.45	4	85.80
			9.52	2	19.04
			2.38	4	9.52
			4.76	4	19.04
			19.04	2	38.08
	42.9		42.90	2	171.60
F.P.	78	90.26	78.00	1	78.00

If excess sheer forward and deficient sheer aft :-

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

Length of enclosed superstructure L

Forward of amidships =
Aft of amidships =

Mean effective sheer ... = 19.17
Standard sheer .05L + 5 = 22.57
Difference (Df) ... = 3.40
Allowance = $Df \times \left(75 - \frac{S}{2L} \right) = 3.40 \times .494 = 1.68$
If limited on account of amidship superstructure ... =
If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... =

ROUND OF BEAM.

Standard	12.05
Ship	13.00
Difference	.95
Restricted to	
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) = .24 \times .4905 = .12$	

TABULAR FREEBOARD (corrected for flush deck if required) = 56.89
Corrected for Coefficient 779 + .68 = 1.459 = 61.03

Correction for Length ... 10.45
Superstructures ... 14.31
Sheer ... 1.68
Round of beam12
Thickness of deck ...
Scantlings, etc. ...
Statutory deck line ...

+	-
10.45	14.31
1.68	.12
12.13	14.43
Summer Freeboard = 58.73	

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :-
Fresh Water Line above centre of Disc ... 4' 10 3/4
Indian Summer Line " " " ... 5' 4 1/4
Winter Line below " " ...
Winter North Atlantic Line " " " ...

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