

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

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

Ship's Name. <i>Waiwai</i>	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build. 1930	Particulars of Classification.
Number in Register Book _____					

Moulded dimensions *241.08 x 38.0 x 21.0*
Moulded displacement at a moulded draught of 85 per cent. of moulded depth *3358 tons*
Coefficient of fineness for use with tables *.719*

DEPTH FOR FREEBOARD.

Moulded depth	21.00
Stringer plate	.04
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	-
Depth D =	21.04

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$
 $(D - \frac{L}{15}) \times R = 21.04 - 16.07 = 4.97 \times 1.854 = 9.22$
 (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 .	6.00 Height.	Correction for Height.	Effective Length.
Poop enclosed	26.56	26.56	7.25	✓	26.56
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	70.00	70.00	7.25	✓	70.00
" overhang aft					
" overhang forward					
F'cle enclosed	25.25	25.25	7.25	✓	25.25
" overhang					
Trunks forward					
" aft					
Tonnage opening					

NB
 * assumed that shiping tonnage fitted 1/2 height at after end will be fitted full height
 ← see over.

TOTAL = $\frac{121.81}{241.08} = 50.53\%$
 Length of ship (L) = 241.08
 % Covered ... = 50.53
 Corresponding %, corrected for absence of forecastle if required } A =
 Allowance ... = 30.11
 B = 36.53
 Correction for Bridge less than 2L if required }
 = - 11.00

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	36.0	34.11	36.00	1	36.00
2			19.50	4	78.00
3			8.67	2	17.34
4			2.17	4	8.68
5			4.39	4	17.56
6			17.56	2	35.12
6			39.50	2	78.00
F.P. 7	78.0	68.22	78.00	4	312.00
				1	78.00

If excess sheer forward and deficient sheer aft :-
 Actual sheer aft = excess
 Standard sheer aft =
 Actual sheer forward = excess
 Standard sheer forward =

Mean effective sheer ... = 428.70
 Standard sheer $.05L + 5 = 17.86$
 Difference (Df) = .81
 Allowance = $Df \times \left(\frac{.75 - S}{2L} \right) = .81 \times \left(\frac{.75 - .25}{2} \right) = .11$
 If limited on account of amidship superstructure =
 If limited on account of excess sheer (1 1/2 in. per 100 ft.) =

Length of enclosed superstructure L

Forward of amidships =
 Aft of amidships =

ROUND OF BEAM.

Standard ... $33 \times .24 = 9.12$
 Ship ... 10.00
 Difference ... excess88
 Restricted to ...
 Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) = .22 \times .495 = .11$

$\frac{21.04}{2.55} = 8.25$
 $\frac{30.60}{4.62} = 6.62$
 $\frac{4.1849}{4.62} = .90$
 $\frac{35.22}{4.62} = 7.62$

TABULAR FREEBOARD (corrected for flush deck if required) = 30.52

Corrected for Coefficient $.719 \frac{+.68}{1.36} = \frac{1.399}{1.36} \times 30.52 = 31.40$	
Correction for Length ... 9.22	
" Superstructures ... 11.00	
" Sheer41	
" Round of beam11	
" Thickness of deck amidships ... 1.50	
" Scantlings, etc. ...	
" Statutory deck line ...	
Summer Freeboard = 30.60	

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	" " "	...



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1906 freeboards } S 2'-6 1/2"
 Difference } W + 1 3/4"