

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Index No. _____
(For London Office only.)

Port of Survey _____

Date of Survey _____

Name of Surveyor _____

Ship's Name. <i>Albert E. Watts</i>	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build. <i>1921</i>	Particulars of Classification. <i>+100 A1 "Carrying Petroleum in Bulk"</i>
Number in Register Book _____					

Moulded dimensions *430 x 59.00 x 33.25*

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	...	...	...	...	<i>33.25</i>
Stringer plate	...	...	...	...	<i>.06</i>
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...
Depth D =	...	...	...	...	<i>33.31</i>

CORRECTION FOR LENGTH.

(a) When **D** is greater than $\frac{L}{15}$
 $(D - \frac{L}{15}) \times R = (33.31 - 28.67) \times 3 = +13.92$

(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.	Forward Sheer				
						A	S	S _m	A	S
Poop enclosed	134.00	134.00	7.50		134.00	65	-	1	-	-
" overhang			7.75	✓		-	1166	3	-	34.98
R.Q.D. enclosed						18.20	4717	3	54.60	141.51
" overhang						121.12	106.00	1	121.12	106.00
Bridge enclosed	36.46	36.46	7.75		36.46	175.72 282.49				
" overhang aft						$\frac{A}{S} = \frac{175.72}{282.49} = 62.20\%$				
" overhang forward										
F'cle enclosed	40.38	25.12	7.75		25.12					
" overhang										
Trunks forward										
" aft										
Tonnage opening										
TOTAL =	<i>210.84</i>	<i>195.58</i>			<i>195.58</i>					
Length of ship (L) =	<i>430</i>	<i>430</i>			<i>430</i>					
% Covered ... =	<i>49.03</i>	<i>45.48</i>			<i>45.48</i>					
Corresponding %, corrected for absence of forecastle if required } A =	<i>Tanker</i>									
Allowance ... =	<i>42.00</i>	<i>36.48</i>			<i>36.48</i>					
										<i>-15.32</i>

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>60.37</i>	<i>53.00</i>	<i>60.37</i>	<i>1</i>	<i>60.37</i>
2	<i>10.00</i>	<i>23.58</i>	<i>10.00</i>	<i>4</i>	<i>40.00</i>
3	<i>-</i>	<i>5.83</i>	<i>-</i>	<i>2</i>	<i>-</i>
4	<i>-</i>	<i>-</i>	<i>-</i>	<i>4</i>	<i>-</i>
5	<i>-</i>	<i>11.66</i>	<i>-</i>	<i>2</i>	<i>-</i>
6	<i>18.20</i>	<i>47.17</i>	<i>18.20</i>	<i>4</i>	<i>72.80</i>
F.P. 7	<i>121.12</i>	<i>106.00</i>	<i>121.12</i>	<i>1</i>	<i>121.12</i>

If excess sheer forward and deficient sheer aft :-

Actual sheer aft / Standard sheer aft = *Deficient*

Actual sheer forward / Standard sheer forward = *Deficient*

Length of enclosed superstructure

Forward of amidships = } *Tanker*

Aft of amidships = }

Mean effective sheer ... = $\frac{18}{294.29} = 16.35$

Standard sheer $.05L + 5 = 26.50$

Difference (**Df**) ... = *.505*

Allowance = $Df \times \left(.75 - \frac{S}{2L} \right) = 10.15 \left(.75 - .245 \right) = +5.12$

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.

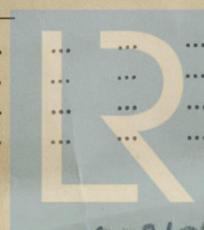
Standard	...	<i>59 x .24</i>	...	<i>14.16</i>
Ship	...	...	...	<i>15.00</i>
Difference	...	...	...	<i>.84</i>
Restricted to	...	...	...	<i>.545</i>
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) =$	...	...	...	<i>-.21 (1 - .455) = -.11</i>

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient	$\frac{+.68}{1.36} =$			<i>69.90</i>
Correction for Length	...	<i>13.92</i>		
" Superstructures	...		<i>15.32</i>	
" Sheer	...	<i>5.12</i>		
" Round of beam	...		<i>.11</i>	
" Thickness of deck	...			
" Scantlings, etc.	...			
" Statutory deck line	...			
		<i>19.04</i>	<i>15.43</i>	<i>+ 3.61</i>
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	" " "	...



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