

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

 Port of Survey _____
 Date of Survey 23-12-30
 Name of Surveyor _____

Ship's Name. <u>STANDARD</u>	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build. <u>1914</u>	Particulars of Classification. <u>100 A1 Shell, deck with fld. Carrying petroleum in bulk.</u>
Number in Register Book _____					
Moulded dimensions <u>525' x 68.5' x 34.58'</u>					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth _____					
Coefficient of fineness for use with tables <u>.79 assumed</u>					

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	34.58'
Stringer plate	...	...	...	...	...	.04'
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...	...	-
Depth D =	...	...	...	...	...	34.62'

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$(D - \frac{L}{15}) \times R =$	...
(b) When D is less than $\frac{L}{15}$ (if allowed).	
$(\frac{L}{15} - D) \times R =$	$(\frac{35.00}{15} - 34.62) \times 3 = 0.38 \times 3 = 1.14'$
If restricted by height of superstructures	$\frac{1.14 \times 7.2}{7.5} = 1.09'$

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S ₁ .	Height.	Correction for Height.	Effective Length.
Poop enclosed	297.10'	297.10'	7.2	$297.1 \times \frac{7.2}{7.5}$	285.20'
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft	218.20'	218.20'	7.2	$222.29 \times \frac{7.2}{7.5}$	213.40'
" overhang forward					
F'cle enclosed	5.45'	4.09'			
" overhang					
Trunks forward					
" aft					
Tonnage opening	4.25'	2.80'	7.2	$2.80 \times \frac{7.2}{7.5}$	2.69'

 Ht. of Superstructures: 7.2
 Standard do: 7.5

TOTAL =	525.00	522.19	501.29'
Length of ship (L) =	525	525	525
% Covered ... =	100	99.45%	95.49%
Corresponding %, corrected for absence of forecabin if required } A =		B = 94.45%	Correction for Bridge less than 2L if required }
Allowance ... =	42' x	.9445' =	- 39.67'

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	17.5'	62.5'	17.5'	1	17.50'
2	4.5'		4.5'	4	18.00'
3			2.0'	2	4.00'
4			1.5'	4	2.00'
5			3.8.3'	2	15.32'
6	34.5'		15.34'	2	30.68'
F.P. 7	75'	125.0'	34.5'	4	138.00'
			75'	1	75.00'

If excess sheer forward and deficient sheer aft :-

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

 Length of enclosed superstructure
 L

 Forward of amidships = CSS Tanker
 Aft of amidships =

Mean effective sheer ...	=	12.52'
Standard sheer .05L + 5 =	=	31.25'
Difference (Df) ...	=	18.73'
Allowance = $Df \times \left(\frac{.75 - \frac{S}{2L}}{.75} \right) =$	=	18.73 (.75 - .50) = + 4.68'
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	...	...	...	...	16.44'
Ship	...	...	...	...	16.50'
Difference	...	...	...	...	.06'
Restricted to	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) =$					NIL

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient .79 $\frac{.68}{1.36} =$	1.47	1.26	93.20'
Correction for Length	...	...	1.09'
" Superstructures	...	...	39.67'
" Sheer	...	...	4.68'
" Round of beam	...	...
" Thickness of deck	...	...
" Scantlings, etc.	...	...
" Statutory deck line	...	...
	4.68'	40.76'	36.08'

Summer Freeboard = 64.67'

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	"	"	"

 5'-4 3/4"
 6'-0"
 12 1/2"
 11 1/2"

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