

Ship's Name. Livingstone Roe.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification. +100A.1 Shelter deck with freeboard.
Number in Register Book					

Moulded dimensions 462.83 x 60.0 x 37.25  
Moulded displacement at a moulded draught of 85 per cent. of moulded depth 823 (see back)  
Coefficient of fineness for use with tables

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	37.25
Stringer plate	...	...	...	...	.06
Sheathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	✓
Depth D =	...	...	...	...	37.31

CORRECTION FOR LENGTH.

(a) When D is greater than  $\frac{L}{15}$   
 $(D - \frac{L}{15}) \times R = (37.31 - 30.86) \times 3 = +19.35$   
(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 <sub>1</sub> .	Height.	Correction for Height.	Effective Length.
Poop enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
R.Q.D. enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
Bridge enclosed	...	...	...	...	...
" overhang aft	...	...	...	...	...
" overhang forward	...	...	...	...	...
F'cle enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
Trunks forward	...	...	...	...	...
" aft	...	...	...	...	...
Tonnage opening	...	...	...	...	...

allowance for a forecastle of length = .07L.  
would be  
412 x .049 = 2.06.

TOTAL =  
Length of ship (L) =  
% Covered ... =  
Corresponding %, corrected for absence of forecastle if required } A =  
Allowance ... =  
Correction for Bridge less than .2L if required }  
B =  
=

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	30.75	56.28	30.75	1	30.75
2	1.50		1.50	4	6.00
3	-		-	2	-
4	-		-	4	-
5	-		-	2	-
6	12.00		12.00	4	48.00
F.P. 7	77.00	112.56	77.00	1	77.00
				18	161.75

If excess sheer forward and deficient sheer aft :—  
Actual sheer aft = defective  
Standard sheer aft  
Actual sheer forward = defective  
Standard sheer forward

Mean effective sheer ... =  
Standard sheer .05L + 5 =  
Difference (Df) ... =  
Allowance =  $Df \times \left( .75 - \frac{S}{L} \right) = 19.15 \times (.75) = +14.37$   
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 = } Tanker  
Aft of amidships = }

ROUND OF BEAM.

Standard	...	...	...	...	14.40
Ship	...	...	...	...	12.00
Difference	...	...	...	...	2.40
Restricted to	...	...	...	...	
Allowance = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S}{L} \right) =$	...	...	...	...	+0.6

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient .823 + .68 / 1.36 =  
Correction for Length ...  
" Superstructures ...  
" Sheer ...  
" Round of beam ...  
" Thickness of deck ...  
" Scantlings, etc. ...  
" Statutory deck line ...

+	-
19.35	-
2.06	-
14.37	-
.60	-
-	-
-	-
36.38	-

Summer Freeboard = 123.04

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	"	"	"	...

10'-3"  
9'-8"  
10'-9"  
11'-2"  
F.W. = 64"  
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A.B.  
FW = 74"



Get. Siple at summer load line = 17059 tons  
Summer load line = 26' 6"

$$85\% \text{ M.D. + Peel} = 31.66 + .21 = 31' 10\frac{1}{2}''$$

$$\text{Diff} = 5.37'$$

$$T.P.1 = 57.80 \times 64.44,$$

$$= 3725 \text{ tons}$$

$$= 17059.$$

$$\underline{20784 \text{ tons}}$$

$$= \frac{20784 \times 35 \times .995}{462.83 \times 60.0 \times 37.25 \times .85} = .823.$$



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