

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 35092
(For London Office only.)
Port of Survey Widdow
Date of Survey -
Name of Surveyor -

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>PORTFIELD</u>	<u>Cardiff</u>	<u>148310</u>	<u>✓</u>	<u>1929</u>	<u>+ 100 A1.</u>
Number in Register Book					

Moulded dimensions 380.0 × 51.41 × 24.64

Moulded displacement at a moulded draught of 85 per cent. of moulded depth 10505

Coefficient of fineness for use with tables .495

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	<u>24.64</u>
Stringer plate	...	...	...	...	...	<u>.04</u>
Sheathing in wells	$T \left(\frac{L-S}{L} \right) =$	...	...	...	...	<u>-</u>
Depth D =	...	...	...	...	...	<u>24.41</u>

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	$(D - \frac{L}{15}) \times R = (24.41 - 25.33) \times 2.923$	<u>+ 6.96</u>
(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
„ overhang
R.Q.D. enclosed
„ overhang
Bridge enclosed
„ overhang aft
„ overhang forward
F'cle enclosed
„ overhang
Trunks forward
„ aft
Tonnage opening

TOTAL = 319.00 319.00 319.00

Length of ship (L) = 380.0 380.0 380.0

% Covered ... = 83.94 83.94 83.94

Corresponding %, corrected for absence of forecastle if required } A = .8 = 80.18 . Correction for Bridge less than $\frac{1}{2}L$ if required } ✓

Allowance ... = 40.64 × .8018 = -32.61

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<u>52.0</u>	<u>48.0</u>	<u>48.0</u>	<u>1</u>	<u>48.0</u>
2	<u>28.25</u>		<u>24.0</u>	<u>4</u>	<u>108.0</u>
3			<u>12.0</u>	<u>2</u>	<u>24.0</u>
4			<u>3.0</u>	<u>4</u>	<u>12.0</u>
5			<u>5.89</u>	<u>2</u>	<u>23.56</u>
6			<u>23.55</u>	<u>2</u>	<u>47.10</u>
F.P. 7	<u>53.0</u>	<u>54.0</u>	<u>53.0</u>	<u>4</u>	<u>212.0</u>
	<u>96.0</u>	<u>96.0</u>	<u>96.0</u>	<u>1</u>	<u>96.0</u>

If excess sheer forward and deficient sheer aft :—

Actual sheer aft = Excess
Standard sheer aft

Actual sheer forward = Deficient
Standard sheer forward

Length of enclosed superstructure L

Forward of amidships = ✓

Aft of amidships = ✓

Mean effective sheer ...	...	...	...	...	...	= <u>23.48</u>
Standard sheer $\frac{1}{10}L + 5$ =	...	...	...	...	...	= <u>24.00</u>
Difference (Df)	...	...	...	...	...	= <u>.22</u>
Allowance = $Df \times \left(\frac{75 - S}{2L} \right) =$	...	...	...	...	...	= <u>+ .04</u>
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	...	...	...	...	...	<u>12.41</u>
Ship	...	...	...	...	...	<u>13.00</u>
Difference	...	...	...	...	...	<u>.59</u>
Restricted to	...	...	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	...	...	...	...	...	= <u>.03</u>

TABULAR FREEBOARD (corrected for flush deck if required) = 65.40

Corrected for Coefficient .495 + .68 = 1.085 = 40.93

	+	-
Correction for Length	<u>6.96</u>	
„ Superstructures		<u>32.61</u>
„ Sheer	<u>.04</u>	
„ Round of beam		<u>.03</u>
„ Thickness of deck		
„ Scantlings, etc.		
„ Statutory deck line		
	<u>4.03</u>	<u>32.64</u>

Summer Freeboard = 45.32

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :— 3.94

Fresh Water Line	above centre of Disc	...	...	...	...	...
Indian Summer Line	„	„	„	„	„	...
Winter Line	below	„	„	„	„	...
Winter North Atlantic Line	„	„	„	„	„	...

1906 Shds 4.04 } Diff 5 - 3
4.53 } W - 2.4