

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

 Port of Survey _____
 Date of Survey 20-9-30.
 Name of Surveyor _____

| Ship's Name. | Port of Registry and Nationality. | Official Number. | Gross Tonnage. | Date of Build. | Particulars of Classification. |
|-------------------------|-----------------------------------|------------------|----------------|----------------|---------------------------------|
| <u>FARNDALE</u> | | | | | <u>+100' A1 with freeboard.</u> |
| Number in Register Book | | | | | |

 Moulded dimensions 364.54 x 51.17 x 27.5
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth 9950
 Coefficient of fineness for use with tables .80

DEPTH FOR FREEBOARD.

| | | | | | |
|---|-----|-----|-----|-----|-------|
| Moulded depth | ... | ... | ... | ... | 27.50 |
| Stringer plate | ... | ... | ... | ... | .04 |
| Sheathing in wells $T \left(\frac{L-S}{L} \right) =$ | ... | ... | ... | ... | - |
| Depth $D =$ | ... | ... | ... | ... | 27.54 |

CORRECTION FOR LENGTH.

| | |
|--|-------------------------------------|
| (a) When D is greater than $\frac{L}{15}$ | $24.30'$ |
| $(D - \frac{L}{15}) \times R =$ | $27.54 - 3.24 \times 2.804 = 9.09'$ |
| (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_1 | Equivalent Enclosed Length S_2 | Height. | Correction for Height. | Effective Length. |
|--------------------|---------------------------|----------------------------------|---------|------------------------|-------------------|
| Pop enclosed | 28.75 | 28.75 | 7.5' | - | 28.75 |
| " overhang | | | | | |
| R.Q.D. enclosed | | | | | |
| " overhang | | | | | |
| Bridge enclosed | 330.79 | 330.79 | 7.5' | | 330.79 |
| " overhang aft | .34 | .26 | | | .26 |
| " overhang forward | | | | | |
| F'cle enclosed | | | | | |
| " overhang | | | | | |
| Trunks forward | | | | | |
| " aft | | | | | |
| Tonnage opening | 4.66 | 2.37 | 7.5' | | 2.37 |

TOTAL = $364.54 + 362.17 = 364.54$
 Length of ship $(L) = 364.54$
 % Covered ... = 100.0
 Corresponding %, corrected for absence of forecastle if required $A =$
 Allowance ... = $39.64' \times .992 = 39.33'$
 Correction for Bridge less than $\frac{1}{2}L$ if required $C.S.S.$

SHEER.

| Station. | Actual Sheer. | Standard Sheer. | Allowed Sheer. | S. M. | Products. |
|----------|---------------|-----------------|----------------|-------|-----------|
| A.P. 1 | 63+432 | 46.45 | 67.32 | 2 | 33.6 |
| 2 | 34 | 26.12 | 37.87 | 2 | 75.7 |
| 3 | | | 16.83 | 1 | 16.8 |
| 4 | | | 4.21 | 2 | 8.4 |
| 5 | | | 7.33 | 2 | 14.7 |
| 6 | 66 | 52.25 | 29.33 | 2 | 29.3 |
| F.P. 7 | 113+432 | 92.90 | 65.95 | 2 | 131.9 |
| | | | 117.32 | 2 | 58.7 |

Mean effective sheer ... = 30.76
 Standard sheer $.05L + 5 =$ 23.22
 Difference $(Df) = 7.54$
 Allowance $= Df \times \left(\frac{.75 - \frac{S}{L}}{.75} \right) = 7.54 \left(\frac{.75 - .50}{.75} \right) = 1.88$
 If limited on account of amidship superstructure ...
 If limited on account of excess sheer ($1\frac{1}{2}$ in. per 100 ft.) ...

If excess sheer forward and deficient sheer aft:—

Actual sheer aft = Excess
 Standard sheer aft =
 Actual sheer forward =
 Standard sheer forward =

Length of enclosed superstructure L

Forward of amidships =
 Aft of amidships =

ROUND OF BEAM.

| | | | | | |
|---|-----|-----|-----|-----|-------------------------|
| Standard | ... | ... | ... | ... | 12.28 |
| Ship | ... | ... | ... | ... | 12.00 |
| Difference | ... | ... | ... | ... | .28 |
| Restricted to | ... | ... | ... | ... | |
| Allowance $= \frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) =$ | ... | ... | ... | ... | $.07(1 - .9935) = .002$ |

TABULAR FREEBOARD (corrected for flush deck if required) = 60.76
 Corrected for Coefficient $\frac{.90 + .68}{1.36} = \frac{1.58}{1.36} = 1.16$ = 66.12

Correction for Length ... 9.09
 Superstructures ... 39.33
 Sheer ... 1.88
 Round of beam ...
 Thickness of deck ...
 Scantlings, etc. ...
 Statutory deck line ...

Summer Freeboard = 34.00
 6.18
 40.18

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 | " | ... | ... | ... |

Resent $\left\{ \begin{array}{l} S. \ 3'-1\frac{1}{4}" \\ W. \ 3'-6\frac{3}{4}" \end{array} \right.$

Difference

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