

36635

C O P Y.

15 AUG 1941

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, FREIGHTSHIP, TANKER)

| | | | |
|--|---|---------------|---|
| Ship's Name Holmens Varv Yard No. 973 | Owner, Name, Nationality and Port of Registry Swedish | Date of Build | Part of Survey GOTHENBURG |
| Moulded length 76.66 M. Breadth 12.5 M. Depth 6.375 M. <i>To center of keel beam</i> | | | Date of Survey 11th February, 1941. |
| Moulded depth at rounded draught = 85 per cent. of moulded depth 4085 tons = 4048.5 metres | | | Surveyor's Signature |
| Coefficient of fineness for use with Tables .7797 <i>-780</i> | | | Particulars of observations contempt. |

| Depth for Freeboard (D) | Depth correction | Round of Beam correction |
|--|---|---|
| Moulded depth 6.375 | (a) Where D is greater than Table depth (D - Table depth) R = 8.33(6.390 - 5.111) 19.36 = +206 | Moulded Breadth (B) 12.5 M |
| Stringer plate 50 <i>.015</i> | (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1279 | Standard Round of Beam = 250 mm |
| Sheathing on exposed deck $T \frac{(L-8)}{L}$ | If restricted by superstructures | Ship's Round of Beam 250 " |
| Depth for Freeboard (D) = 6.390 | | Difference Excess 10 " |
| | | Restricted to |
| | | Correction = Diff. $(1 - \frac{1}{10})$ 2.5 x .2865 = .716 |

DEDUCTION FOR SUPERSTRUCTURES

| | Mean Covered Length (S) metres | Equivalent Enclosed Length (S _i) metres | Height | Height Correction | Effective Length (E) metres | | |
|-------------------------|--------------------------------|---|------------|-------------------|-----------------------------|---|----------|
| Prop enclosed ... | 22.31 | 22.31 | 2180 mm | | 22.31 | Standard Height of Superstructure | 1.835 M. |
| overhang ... | | | | | | " " R.Q.D. | 1.226 M. |
| R.Q.D. enclosed ... | 26.23 | 26.23 | 1230 | | 26.23 | Deduction for complete superstructure | 792 mm. |
| overhang ... | | | (see over) | | 25.44 | Percentage covered $\frac{S}{L} =$ | 72.15 |
| Bridge enclosed ... | | | | | | " $\frac{S_i}{L} =$ | 71.35 |
| overhang aft ... | | | | | | " $\frac{E}{L} =$ | 71.35 |
| overhang forward ... | | | | | | Percentage from Table, Line A. | 64.6% |
| Fore enclosed ... | 5.55 | 5.55 | 2831 | | 5.55 | (corrected for absence of forecastle (if required)) | |
| overhang ... | 1.22 | .61 | | | .61 | Percentage from Table, Line B. | |
| Trunk aft ... | | | | | | (corrected for absence of forecastle (if required)) | |
| forward ... | | | | | | Interpolation for bridge less than 2L (if required) | |
| Portage opening aft ... | | | | | | Deduction = $792 \times 64.6\%$ | 509 |
| forward ... | | | | | | | -512 mm. |
| Total | 55.31 | 54.70 | | | 54.70 | | |

SHEER CORRECTION

| Station | Standard Ordinate mm. | S | Product | Actual Ordinate mm. | Effective Ordinate | S | Product | Mean actual sheer aft = | Mean standard sheer aft = |
|--------------|-----------------------|---|---------|---------------------|--------------------|---|---------|--|-------------------------------|
| A1 | 891 | 1 | 891 | 488 | 488 | 1 | 488 | | |
| 1L from A.P. | 397 | 4 | 1588 | 114 | 114 | 4 | 456 | Mean actual sheer forward = | Mean standard sheer forward = |
| 1L | 99 | 2 | 198 | - | - | 2 | - | | |
| Amidships | - | 4 | - | - | - | 4 | - | Length of enclosed superstructure forward of amidships = | |
| 1L from P.P. | 198 | 2 | 396 | - | - | 2 | - | | |
| 1L | 794 | 4 | 3176 | 8 | 8 | 4 | 32 | | |
| P.P. | 1782 | 1 | 1782 | 260 | 260 | 1 | 260 | | |
| Total | | | 8031 | | | | 1236 | | |

Correction = Difference between sums of products $(\frac{8031 - 1236}{16}) = \frac{6795}{16} = 424.6875$ *147*
 It is limited to a sum of midship superstructure *5893*

| | | | |
|---|-----------------------------|----------------------------------|--------|
| Deduction for Tropical Freeboard | Deduction for Fresh Water | TABULAR FREEBOARD | 823 mm |
| Addition for Winter and Winter North Atlantic Freeboard | Displacement in light water | 825 x $\frac{2797}{1000} = 2309$ | 829 mm |
| R.Q. deck | Summer load water line | | |
| Deck 7605 | | | |
| Stringer plate 1.9447 | | | |
| Deck 5.661 | | | |
| Deduction for 58 | | | |
| Winter Freeboard | | | |
| Winter Freeboard | | | |

Round quarter deck 1215
1568 514 1055
1944



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