

TIMBER

Index No. 3559
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

| | | | | | |
|---|--------------------------------|--|---|---------------------------------------|--|
| Ship's Name ERIKS BORG | Official Number 7108 | Nationality and Port of Registry SWEDISH KIVIK | Gross Tonnage 1461 (SWED) | Date of Build 1890 8 m. | Port of Survey |
| Moulded Dimensions: Length 76.190 Breadth 10.620 Depth 5.892 | | | | | Date of Survey 17-2-49 |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth | | | | | Surveyor's Signature EJ |
| Coefficient of fineness for use with Tables .79 | | | | | Particulars of Classification +100 A1 |

| DEPTH FOR FREEBOARD (D). | DEPTH CORRECTION. | ROUND OF BEAM CORRECTION. |
|---|---|---|
| Moulded depth ... 5.892 | (a) Where D is greater than Table depth (D-Table depth) R = +132 mm | Moulded Breadth (B) |
| Stringer plate ... 13 | (b) Where D is less than Table depth (if allowed) (Table depth-D) R = | Standard Round of Beam = $\frac{B \times 12}{50}$ = |
| Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ | If restricted by superstructures | Ship's Round of Beam = |
| Depth for Freeboard (D) = 5.905 | | Difference |
| | | Restricted to |
| | | Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$ = +2 mm |

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) |
|-------------------------|-------------------------|--|--------|-------------------|----------------------|
| Poop enclosed ... | | | | | |
| " overhang ... | | | | | |
| R.Q.D. enclosed ... | | | | | |
| " overhang ... | | | | | |
| Bridge enclosed ... | | | | | |
| " overhang aft ... | | | | | |
| " overhang forward ... | | | | | |
| Fore enclosed ... | | | | | |
| " overhang ... | | | | | |
| Trunk aft ... | | | | | |
| " forward ... | | | | | |
| Tonnage opening aft ... | | | | | |
| " forward ... | | | | | |
| Total ... | | | | | |

| | |
|--|----------------|
| Standard Height of Superstructure | 1830 mm |
| " R.Q.D. | 1220 " |
| Deduction for complete superstructure | 788 " |
| Percentage covered $\frac{S}{L} =$ | 93.08 ✓ |
| " $\frac{S_1}{L} =$ | 88.58 ✓ |
| " $\frac{E}{L} =$ | |
| Percentage from Table, Line A. TIMBER | 92.86 ✓ |
| (corrected for absence of fore-castle (if required)) | |
| Percentage from Table, Line B. | |
| (corrected for absence of fore-castle (if required)) | |
| Interpolation for bridge less than .2L (if required) | |
| Deduction = 788 × .9286 = - 732 mm | |

SHEER CORRECTION.

| Station | Standard Ordinate | S M | Product | Actual Ordinate | Effective Ordinate | S M | Product |
|------------------------------|-------------------|-----|---------|-----------------|--------------------|-----|---------|
| A.P. ... | | 1 | | | | 1 | |
| $\frac{1}{8}L$ from A.P. ... | | 4 | | | | 4 | |
| $\frac{2}{8}L$ " ... | | 2 | | | | 2 | |
| Amidships ... | | 4 | | | | 4 | |
| $\frac{2}{8}L$ from F.P. ... | | 2 | | | | 2 | |
| $\frac{1}{8}L$ " ... | | 4 | | | | 4 | |
| F.P. ... | | 1 | | | | 1 | |
| Total ... | | | | | | | |

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
If limited on account of midship superstructure.

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L
" aft of " =

+ 6 mm ✓

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **5.905**Summer freeboard = **294**Moulded draught (d) = **5.61 m**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = **117 mm**

Addition for Winter North Atlantic Freeboard (if

required) = $\frac{d}{36}$ = **156 mm**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches= **116 mm** ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

| | | | | | |
|--|-----|-----|-----|-----|-----|
| Depth Correction | ... | ... | ... | 132 | 732 |
| Deduction for superstructures | ... | ... | ... | 6 | 732 |
| Sheer correction | ... | ... | ... | 2 | 732 |
| Round of Beam correction | ... | ... | ... | 2 | 732 |
| Correction for Thickness of Deck amidships | ... | ... | ... | 2 | 732 |
| Other corrections, scantlings, etc. | ... | ... | ... | 2 | 732 |

Summer Freeboard = **294**

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

| | |
|--|---------------|
| Tropical Fresh Water Line above Centre of Disc | 288 mm |
| Fresh Water Line | 171 " |
| Tropical Line | 172 " |
| Winter Line below | 101 " |
| Winter North Atlantic Line | 167 " |

| | |
|--------------------------------|-------------|
| Tropical Fresh Water Freeboard | 6.1 |
| Fresh Water | 1.78 |
| Tropical | 1.77 |
| Winter | 4.50 |
| Winter North Atlantic | 5.16 |