

Amended.Index No. 33227
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

| | | | | | |
|---|----------------------------------|--|------------------------------|---------------------------|--|
| Ship's Name Sts Brika. | Official Number 143998 | Nationality and Port of Registry British. Swansea. | Gross Tonnage 1929 | Date of Build 5 | Port of Survey 24 MAR 1948 |
| Moulded Dimensions: Length 370.0' Breadth 52.10' Depth 28.25' | | | | | Surveyor's Signature |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth 10640 tons | | | | | Particulars of Classification +100 A.1. |
| Coefficient of fineness for use with Tables .805 | | | | | |

| DEPTH FOR FREEBOARD (D). | DEPTH CORRECTION. | ROUND OF BEAM CORRECTION. |
|--|---|---|
| Moulded depth 28.25' | (a) Where D is greater than Table depth (D-Table depth) R = (28.29-24.67)2.846 = +10.30" | Moulded Breadth (B) 52.10' |
| Stringer plate04 | (b) Where D is less than Table depth (if allowed) (Table depth-D) R = .50" | Standard Round of Beam = $\frac{B \times 12}{50} = 12.50"$ |
| Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ | If restricted by superstructures ✓ | Ship's Round of Beam = 13.00" |
| Depth for Freeboard (D) = 28.29 | | Difference .50" |
| | | Restricted to ✓ |
| | | Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.50}{4} \times .5776 = -.06"$ |

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S ₁) | Height | Height Correction | Effective Length (E) |
|---------------------------------|-------------------------|--|--------------|-------------------|----------------------|
| Poop enclosed egm.v. ... | 35.51 | 35.51 | 7.0' | 7.0/7.2 | 34.52 |
| " overhang ... | | | | | |
| R.Q.D. enclosed ... | | | | | |
| " overhang ... | | | | | |
| Bridge enclosed ... | 103.50 | 103.50 | 7.0' | 7.0/7.2 | 100.62 |
| " overhang aft ... | 2.50 | 1.88 | | | 1.82 |
| " overhang forward ... | .66 | .33 | | | .32 |
| F'cle enclosed ... | 36.25 | 36.25 | 7.25' | ✓ | 36.25 |
| " overhang ... | 1.25 | 1.00 | | | 1.00 |
| Trunk aft ... | | | | | |
| " forward ... | | | | | |
| Tonnage opening aft ... | | | | | |
| " " forward ... | | | | | |
| Total ... | 179.67 | 178.47 | | | 174.53 |

| | |
|---|--|
| Standard Height of Superstructure 7.3' | |
| " " R.Q.D. ✓ | |
| Deduction for complete superstructure 40.00" | |
| Percentage covered $\frac{S}{L} = 48.56$ | |
| " " $\frac{S_1}{L} = 48.24$ | |
| " " $\frac{E}{L} = 47.17$ | |
| Percentage from Table, Line A. ✓ | |
| (corrected for absence of forecastle (if required)) ✓ | |
| Percentage from Table, Line B. 33.59 | |
| (corrected for absence of forecastle (if required)) ✓ | |
| Interpolation for bridge less than .2L (if required) ✓ | |
| Deduction = 40.00 x .3359 = -13.44" | |

SHEER CORRECTION.

| Station | Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product |
|-------------------------------|-------------------|----------|----------|---------------|-----------------|--------------------|----------|----------|---------------|
| A.P. ... | 47.00 | 1 | ✓ | 47.00 | 53.00 | 53.00 | 1 | ✓ | 53.00 |
| $\frac{1}{2}$ L from A.P. ... | 20.91 | 4 | ✓ | 83.64 | 22.80 | 22.91 | 4 | ✓ | 91.64 |
| $\frac{3}{4}$ L " ... | 5.17 | 2 | ✓ | 10.34 | 5.90 | 5.73 | 2 | ✓ | 11.46 |
| Amidships ... | ✓ | 4 | ✓ | ✓ | ✓ | ✓ | 4 | ✓ | ✓ |
| $\frac{3}{4}$ L from F.P. ... | 10.34 | 2 | ✓ | 20.78 | 12.00 | 11.75 | 2 | ✓ | 23.50 |
| $\frac{1}{2}$ L " ... | 41.82 | 4 | ✓ | 167.28 | 46.40 | 47.00 | 4 | ✓ | 188.00 |
| F.P. ... | 94.00 | 1 | ✓ | 94.00 | 108.00 | 108.00 | 1 | ✓ | 108.00 |
| Total ... | | | | 423.04 | | | | | 475.60 |

Mean actual sheer aft = **Excess.**
Mean standard sheer aft = **Excess.**Mean actual sheer forward = **Excess.**
Mean standard sheer forward = **Excess.**Length of enclosed superstructure forward of amidships = **.14**
" " aft of " = **.11**Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{52.56}{18} \left(.75 - \frac{.2428}{2} \right) = -1.48"$
If limited on account of midship superstructure. **✓**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 = 28.29' | Ft. |
| Summer freeboard = 5.29' | |
| Moulded draught (d) = 23.00' | |
| Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.75 = 5$\frac{3}{4}$" | |
| Addition for Winter North Atlantic Freeboard (if required) = ✓ | |

Deduction for Fresh Water.

| |
|--|
| Displacement in salt water at summer load water line $\Delta = 10169$ tons. |
| Tons per inch immersion at summer load water line $T = 39.8$ |
| Deduction = $\frac{\Delta}{40 T}$ inches = 6$\frac{1}{2}$" |

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.68 + .805}{1.36} \cdot 1.485/1.36$

| | | |
|--|--------------|----------|
| Depth Correction ... | 10.30 | ✓ |
| Deduction for superstructures ... | 13.44 | ✓ |
| Sheer correction ... | 1.48 | ✓ |
| Round of Beam correction ... | .06 | ✓ |
| Correction for Thickness of Deck amidships ... | ✓ | ✓ |
| Other corrections, scantlings etc. ... | ✓ | ✓ |

Summer Freeboard = **63.44"**

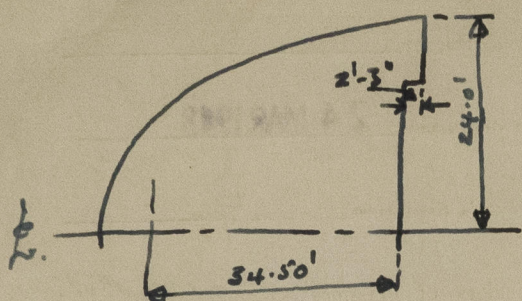
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

| | |
|--|------------------------------------|
| Tropical Fresh Water Line above Centre of Disc ... | 12$\frac{1}{4}$" |
| Fresh Water Line " " ... | 6$\frac{1}{2}$" |
| Tropical Line " " ... | 5$\frac{3}{4}$" |
| Winter Line below " " ... | 5$\frac{3}{4}$" |
| Winter North Atlantic Line " " ... | ✓ |

| | |
|------------------------------------|-----------------------------------|
| Tropical Fresh Water Freeboard ... | 4$\frac{1}{2}$" |
| Fresh Water " " ... | 4$\frac{1}{2}$" |
| Tropical " " ... | 4$\frac{1}{2}$" |
| Winter " " ... | 5$\frac{3}{4}$" |
| Winter North Atlantic " " ... | ✓ |

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Poop: -



Encl. length @ Centre :
 Side hatches $\frac{10.75 \times 2.25}{24}$ ✓
 Equiv. encl. Poop :
 no overhang

= 34.50' ✓
 = 1.01' ✓
 = 35.51' ✓

///

27.75
 6.75
 21.00

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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