

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Tellbank etc 39053

| | | | | | |
|---|----------------------------------|--|------------------------------|------------------------------|---|
| Ship's Name "WILLOWBANK" (EX - SAMWYE) | Official Number 169848 | Nationality and Port of Registry BRITISH GLASGOW | Gross Tonnage 7219 | Date of Build 1944 | Port of Survey London. |
| Moulded Dimensions: Length 416'-0" Breadth 56'-10 3/4" Depth 37'-4" = 37.33 <i>To centre of middle stow 417.73'</i> <i>(on 25 1/2" w.l.)</i> | | | | | Date of Survey 4th 5th & 9th June 1947 |
| Moulded displacement at moulded draught = 85 per cent. of moulded depth (Total disp) 16,580 · 16,500 tons | | | | | Surveyor's Signature <i>Phamie J. G. G.</i> |
| Coefficient of fineness for use with Tables ·766 | | | | | Particulars of Classification CONTINGENT |

| Depth for Freeboard (D). | Depth correction. | Round of Beam correction. |
|--|--|---|
| Moulded depth 37.33' | (a) Where D is greater than Table depth (D - Table depth) R = (37.33 - 27.83) 3 = +28.62" | Moulded Breadth (B) 56.9' |
| Stringer plate ·06' | (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 9.54 | Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.65" |
| Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ NONE. | If restricted by superstructures ✓ | Ship's Round of Beam STRAIGHT CAMBER AT 9 1/2" FROM d: 14" |
| Depth for Freeboard (D) = 37.39 | | Difference + .45 |
| | | Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.45}{4} = - .11"$ |

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 | | | | | |
| F'cle enclosed | | | | | |
| „ overhang | | | | | |
| Trunk aft | | | | | |
| „ forward | | | | | |
| Tonnage opening aft | | | | | |
| „ „ forward | | | | | |
| Total | | | | | |

Standard Height of Superstructure **7.5'**

„ „ R.Q.D. **✓**

Deduction for complete superstructure **42"**

Percentage covered $\frac{S}{L} =$ **NIL**

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **NIL**

SHEER CORRECTION.

| Station | Standard Ordinate | S M | Product | Actual Ordinate | Effective Ordinate | S M | Product |
|------------------------|-------------------|-----|---------|-----------------|--------------------|-----|---------|
| A.P. | 51.77 | 1 | 51.77 | 51 3/4 | 51.75 | 1 | 51.75 |
| 1/4 L from A.P. | 23.04 | 4 | 92.16 | 20 1/2 | 20.50 | 4 | 82.00 |
| 3/4 L „ | 5.695 | 2 | 11.39 | 4 1/4 | 4.25 | 2 | 8.50 |
| Amidships | - | 4 | - | 0 | - | 4 | - |
| 3/4 L from F.P. | 11.39 | 2 | 22.78 | 10 3/4 | 10.75 | 2 | 21.50 |
| 1/4 L „ | 46.08 | 4 | 184.32 | 46 1/4 | 46.25 | 4 | 185.00 |
| F.P. | 103.55 | 1 | 103.55 | 107 1/4 | 107.25 | 1 | 107.25 |
| Total | | | 465.97 | | | | 456.00 |

Mean actual sheer aft = **> .75**

Mean standard sheer aft

Mean actual sheer forward = **> 1.0**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **Flush**

„ „ aft of „ = **deck**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{9.97}{18} \times .75 = + .41"$

If limited on account of midship superstructure. **✓**

If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **37.39**

Summer freeboard = **9.73**

Moulded draught (d) = **27.66**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.92 = 7"**

Addition for Winter North Atlantic Freeboard (if required) = **✓**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

$T =$

Deduction = $\frac{\Delta}{40 T}$ inches

7 1/4"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

1.36

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

28.62

41

·11

28.92

117.52

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

Tropical Fresh Water Line above Centre of Disc ... **14 1/4"**

Fresh Water Line " " ... **7 1/4"**

Tropical Line " " ... **7"**

Winter Line below " " ... **7"**

Winter North Atlantic Line " " ... **✓**

Tropical Fresh Water Freeboard ... **3'-8 3/4"**

Fresh Water " " ... **3'-1 1/2"**

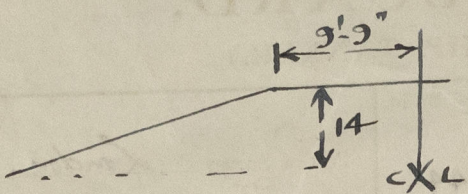
Tropical " " ... **3'-1 3/4"**

Winter " " ... **10'-3 3/4"**

Winter North Atlantic " " ... **✓**

Willowbank

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.



Equivalent camber =

$$19.5 \times 14 = 273.0$$

$$14 \left(\frac{56.9 - 19.5}{2} \right) = \frac{261.8}{534.8}$$

$$\frac{534.8 \times 3}{56.9 \times 2} = \underline{\underline{14.10''}}$$

anti

Trade of ship GENERAL CARGO

Names of sister ships "TIELBANK", "SHEAFMEAD", etc.

Builder's name and yard number NEW ENGLAND S. B. CORP., PORTLAND, ME.

Owners BANK LINE LD.

Fee £ 18-0-0 (at 18 JUN 1947)



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