

AMENDED ASSIGNMENT

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

WINNER
35633

LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD (COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

Received
Index No.
Govt. Copy
Owners C11

Ship's Name CALABAR (formerly UMTALI)	Official Number 164664	Nationality and Port of Registry British Liverpool	Gross Tonnage 1936	Date of Build 1936	Port of Survey Antwerp
Moulded Dimensions: Length 445.0 Breadth 61.0 Depth 35.5					Date of Survey August 1957
Freeboard Length 445.0					Surveyor's Signature _____
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16774 tons (excluding bossing)					Particulars of Classification + 100A1
Coefficient of fineness for use with Tables .717					

DEPTH FOR FREEBOARD (D). Moulded depth ... 35.50 Stringer plate04 Wood Sheathing on exposed deck 2 1/2" $T \left(\frac{L-S}{L} \right) = \frac{2.5 \times 160.54}{12 \times 445} = .08$ Depth for Freeboard (D) = 35.62	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (35.62 - 29.67) 3 = +17.85" (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) = 61.0 Standard Round of Beam = $\frac{B \times 12}{50} = \frac{61.0 \times 12}{50} = 14.64$ Ship's Round of Beam = 6.50 Difference = 8.64 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{8.64}{4} \times \left(1 - \frac{36.08}{445} \right) = +1.78$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	44.67	44.67	7.5		44.67
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed SEE OVER	207.71	207.71	8.5		207.71
" overhang aft					
" overhang forward					
F'cle enclosed	32.08	32.08	7.5		32.08
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	284.46	284.46			284.46

Standard Height of Superstructure **7.50**
" " R.Q.D. **1**
Deduction for complete superstructure **42"**
Percentage covered $\frac{S}{L} = \frac{63.92}{63.92}$
" $\frac{S_1}{L} = \frac{63.92}{63.92}$
" $\frac{E}{L} = \frac{63.92}{63.92}$
Percentage from Table, Line A. **X B** **52.66**
(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 = **42 x .5266 = 22.12**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	54.50	1	54.50	43.75	43.75	1	43.75
1/4 L from A.P.	24.25	4	97.00	13.75	13.75	4	55.00
1/2 L	5.995	2	11.99	-.62	-.62	2	-1.24
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	11.99	2	23.98	16.25	12.06	2	24.12
1/4 L	48.50	4	194.00	49.12	48.80	4	195.20
F.P.	109.00	1	109.00	100.50	109.65	1	109.65
Total			490.47				426.48

Mean actual sheer aft = **Deficient 57.24% standard**
Mean standard sheer aft =

Mean actual sheer forward = **Excess**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } **Deficient**
" " aft of " = } **sheer.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{63.99}{18} \left(.75 - \frac{31.96}{445} \right) = +1.53"$
If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **35.54**
Summer freeboard = **10.19**
Moulded draught (d) = **25.35**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **6.34 = 6 1/4"**

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 13790$
Tons per inch immersion at summer load water line
T = **52.91**

Deduction = $\frac{\Delta}{40 T}$ inches
= **6.52**
= **6 1/2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.717 + .68}{1.36} = \frac{1.397}{1.36}$

Depth Correction ... **17.85**
Deduction for superstructures ... **22.12**
Sheer correction ... **1.53**
Round of Beam correction ... **.78**
Correction for Thickness of Deck amidships ... **.96**
Other corrections, scantlings, etc. TO CORRESPOND TO APPROVED SUMMER MOULDED DRAUGHT OF **25'-4 1/4"**

Summer Freeboard = **122.25**

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

Tropical Fresh Water Line above Centre of Disc	... 12 3/4"	Tropical Fresh Water Freeboard	... 9'-2 1/4"
Fresh Water Line	... 6 1/2"	Fresh Water	... 9'-7 3/4"
Tropical Line	... 6 1/4"	Tropical	... 9'-8"
Winter Line below	... 6 1/4"	Winter	... 10'-8 1/2"
Winter North Atlantic Line	...	Winter North Atlantic	...

29.10.57

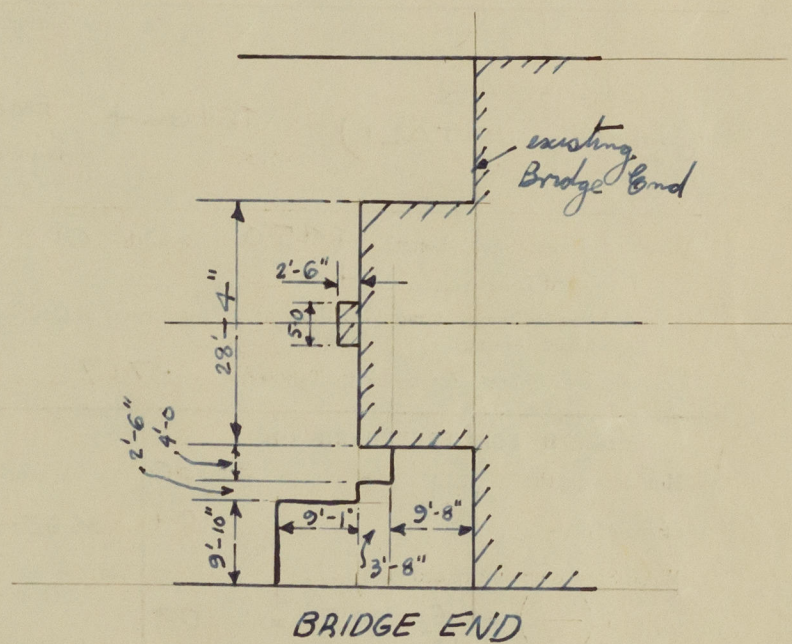
A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

BRIDGE

$$\begin{array}{rcl}
 \text{Length as before} & & 196.53 \\
 + 13.33' \times \frac{44.67}{61} & = & 9.76 \\
 + 9.08' \times \frac{9.83}{61} & = & 1.46 \\
 + on E 2.5 \times \frac{5}{61} & = & .20 \\
 \hline
 & & 207.95 \\
 \text{Less doorway} & & \\
 \text{recess } 3.67' \times \frac{4.0}{61} & = & .24 \\
 \hline
 & & 207.71
 \end{array}$$

61.00

9-10
 2-6
 4-0
 14-2
 30-6
 14-2
 44-8



Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ : : _____

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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